

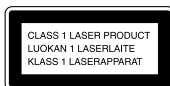
Compact Component Hi-Fi System

Operating Instructions



CMT-J3MD

Do not install the appliance in a confined space, such as a bookcase or built-in cabinet.



This appliance is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

The following caution label is located inside the unit.



IN NO EVENT SHALL SELLER BE LIABLE FOR ANY DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE, OR LOSSES OR EXPENSES RESULTING FROM ANY DEFECTIVE PRODUCT OR THE USE OF ANY PRODUCT.

This system is equipped with the Dolby® B-type noise reduction system.


* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
“DOLBY” and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

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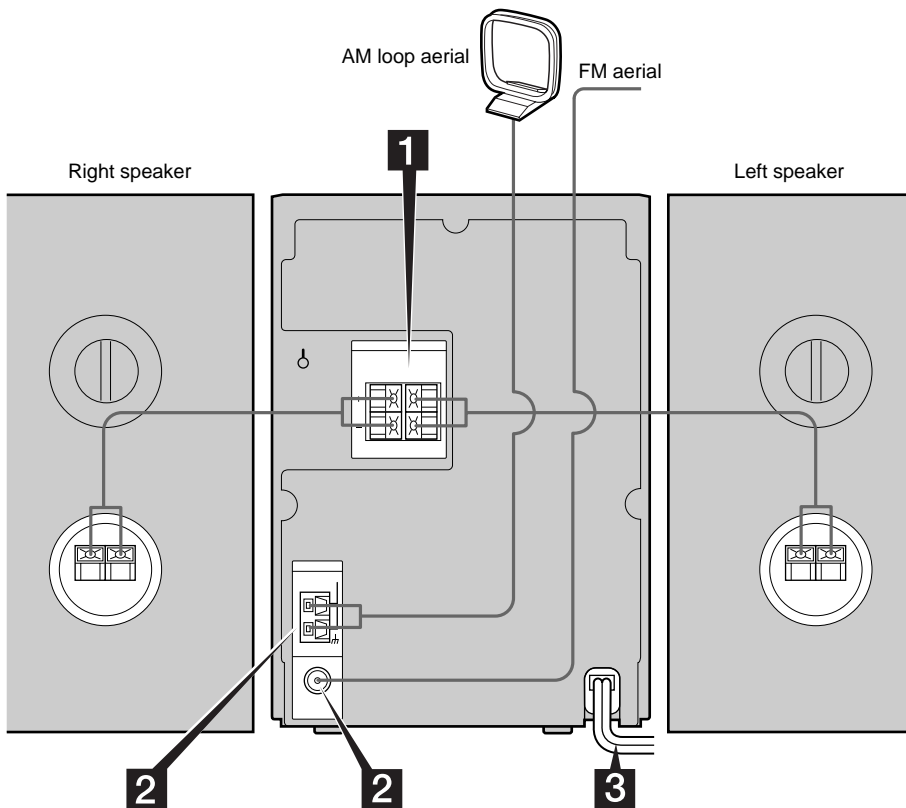
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* European model only

Step 1: Hooking up the system

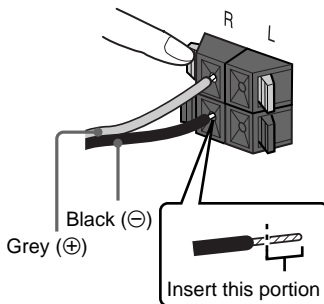
Perform the following procedure **1** to **3** to hook up your system using the supplied cords and accessories.



1 Connect the speakers.

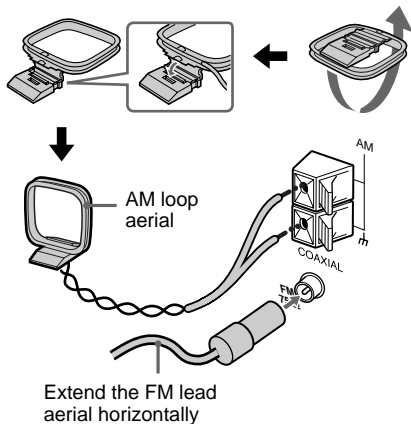
Connect the speaker cords to the **SPEAKER** terminals on the unit and to the terminals on the speakers as the following.

Keep the speaker cords away from the aerials to prevent noise.



2 Connect the FM/AM aerials.

Set up the AM loop aerial, then connect it.



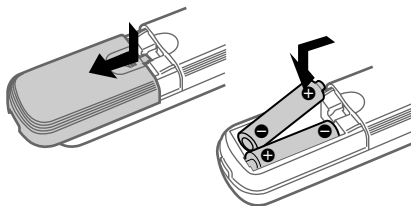
Notes

- If you do not use the remote for a long period of time, remove the batteries to avoid possible damage from battery leakage.
- Be sure to insert the batteries in correct direction.
- Do not mix new batteries with old ones.
- Do not use different types of batteries together.
- Do not use a battery that is leaking.
- If the battery leaks, clean the battery compartment and replace all the batteries with new ones.

3 Connect the mains lead to a wall outlet.

If the plug of the mains lead does not fit your wall outlet, attach the supplied adaptor on to the plug (for models with a plug adaptor).

Inserting two R6 (size AA) batteries into the remote



Tip

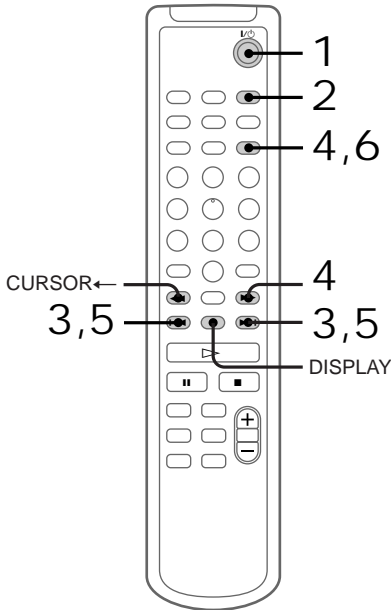
With normal use, the batteries should last for about six months. When the remote no longer operates the system, replace both batteries with new ones.

Step 2: Setting the time

You must set the time beforehand to use the timer functions.

The clock is on a 24-hour system for the European model, and a 12-hour system for other models.

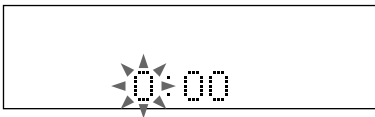
The 24-hour system is used for illustration purposes.



1 Turn on the system.

2 Press **CLOCK/TIMER SET**.

The clock appears and the hour indication flashes.



3 Press **◀◀** or **▶▶** to set the hour.

4 Press **ENTER/YES** or **CURSOR→**.
The minute indication flashes.



5 Press **◀◀** or **▶▶** to set the minute.

6 Press **ENTER/YES**.
The clock starts.

If you made a mistake

Press **CURSOR←** or **→** repeatedly until the incorrect item flashes, then set it again.

To change the preset time

You can change the preset time while the system is off.

1 Press **DISPLAY** to display the clock.

2 Press **CLOCK/TIMER SET**.

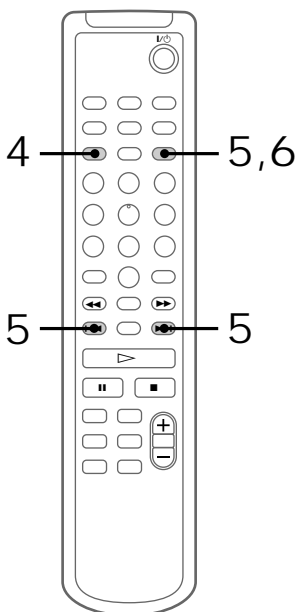
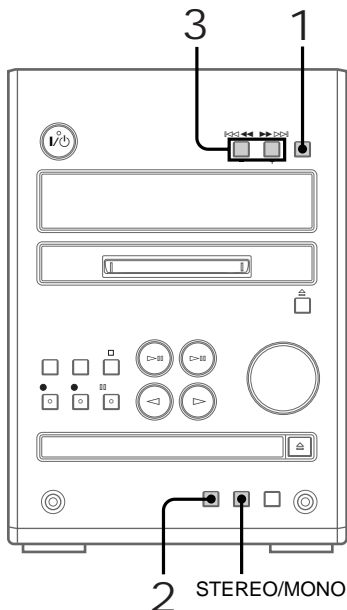
3 Repeat steps 3 to 6 of "Setting the time".

Tip

The upper dot of the colon flashes for the first 30 seconds, and the lower dot flashes for the last 30 seconds of each minute.

Step 3: Presetting radio stations

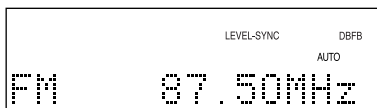
You can preset the following number of stations, 20 for FM and 10 for AM.



- 1 Press TUNER/BAND to select “FM” or “AM”.

Pressing TUNER/BAND turns on the system.

- 2 Press TUNING MODE repeatedly until “AUTO” appears.

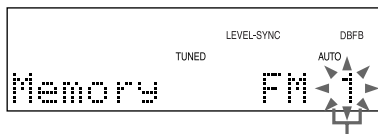


- 3 Press TUNING + or –.

The frequency indication changes and the scanning stops when the system tunes in a station. “TUNED” and “STEREO” (for a stereo programme) appear.

- 4 Press MENU/NO on the remote.

- 5 Press ◀◀ or ▶▶ on the remote repeatedly until “P.Memory ?” appears, then press ENTER/YES on the remote. A preset number appears in the display. The stations are stored from preset number 1.



Preset number

- 6 Press ENTER/YES.

“Complete !!” appears, and then the station is stored.

- 7 Repeat steps 1 to 6 to preset other stations.

continued

Step 3: Presetting radio stations (continued)

To stop scanning

Press TUNING MODE.

To tune in a station with a weak signal

Press TUNING MODE repeatedly until “MANUAL” appears in step 2, then press TUNING + or – repeatedly to tune in the station manually.

To set another station to the exist preset number

Start over from step 1. After step 5, press ◀◀ or ▶▶ on the remote to select the preset number you want to store the other station.

To erase a preset station

- 1 Press MENU/NO on the remote.
- 2 Press ◀◀ or ▶▶ repeatedly until “P.Erase ?” appears.
Select “P.All Erase ?” when you want to erase all the preset stations.
- 3 Press ENTER/YES on the remote.
- 4 Press ◀◀ or ▶▶ repeatedly to select the preset number you want to erase.
- 5 Press ENTER/YES.
“Complete !!” appears.

When you erase a preset number, the preset number decreases by one and all preset numbers following the erased one are renumbered.

To change the AM tuning interval (except for the European model)

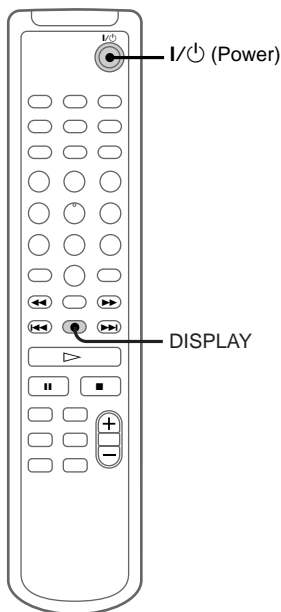
The AM tuning interval is factory-set to 9 kHz (10 kHz in some areas). To change the AM tuning interval, tune in any AM station first, then turn off the system. While holding down the TUNING MODE button, turn the system back on. When you change the interval, all the AM preset stations are erased. To reset the interval, repeat the same procedure.

Tips

- The preset stations are retained for about a day even if you disconnect the mains lead or if a power failure occurs.
- You can label the preset stations (see page 59).
- When an FM programme has static noise, press STEREO/MONO until “MONO” appears. There will be no stereo effect, but the reception will improve. Press the button again to restore the stereo effect.

Saving the power in standby mode

You can lower the power consumption to a minimum and save energy in the standby mode. The system is set at the factory not to display the clock when the system is off (**Power Saving Mode**). To display the clock even when the system is off, deactivate the Power Saving Mode.



- ➔ Press DISPLAY when the system is off.
The system switches off the Power Saving Mode and the clock display appears.

To activate Power Saving Mode
Press DISPLAY.

The clock display disappears.

Tips

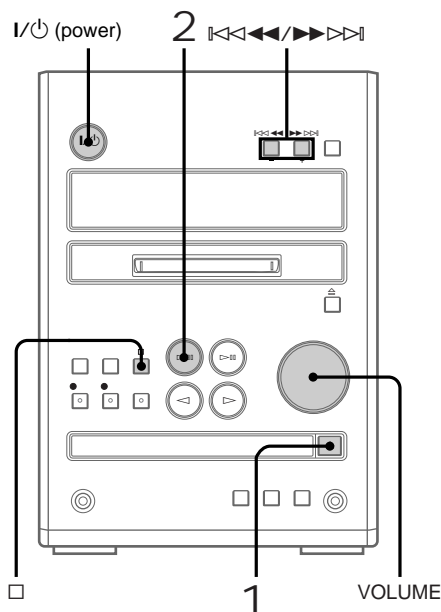
- Each time you press DISPLAY in the Power Saving Mode, the display switches between the Power Saving Mode and the clock display.
- I/O indicator lights up even in the Power Saving Mode.

Note

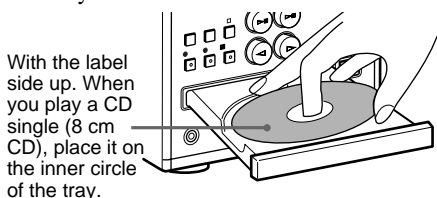
When the timer is set, the Power Saving Mode does not function.

Playing a CD

To turn on the system, press I/⏻ (power).



- 1 Press CD and place a CD on the disc tray.

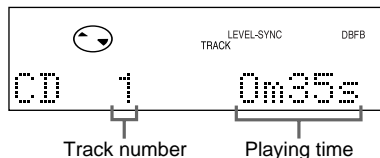


To close the disc tray, press CD again.

- 2 Press CD .

The disc tray closes and play starts.

The indicator on the CD button lights green.




| To | Do this |
|-------------------------|--|
| Stop play | Press . |
| Pause | Press CD . The indicator on the CD button lights orange. Press again to resume play. |
| Select a track | Press or repeatedly. |
| Find a point in a track | Keep pressing or during play and release it at the desired point. “—OVER—” appears at the end of the CD. |
| Remove the CD | Press CD . |
| Adjust the volume | Turn VOLUME. |

Tips

- If there is no CD in the player, “CD No Disc” appears in the display.
- Pressing CD when the system is off automatically turns on the system and starts CD play if there is a CD on the disc tray (**One Touch Play**).
- You can switch from another source to the CD player and start playing a CD just by pressing CD (**Automatic Source Selection**).
- You can start playing from the desired track in step 2.
 - 1 Press or repeatedly until the desired track appears.
 - 2 Press CD .

Or, press the number buttons on the remote. The playback automatically starts. To enter track numbers 10 or over, press >10 and the track number. To enter 0, use the 10/0 button.

Notes

- Do not use a CD with tape, seals or paste on it as this may damage the CD player.
- Do not push the disc tray to close it, as this may damage the CD player. Press CD  to close the disc tray.

Recording a CD on an MD or a tape

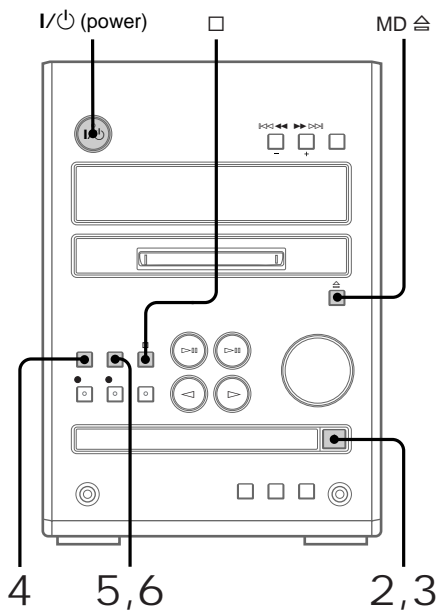
You can make a digital recording of a CD on an MD or an analogue recording on a tape.

You can also record a programme of favourite tracks (see pages 32 and 53).

To turn on the system, press I/⏻ (power).

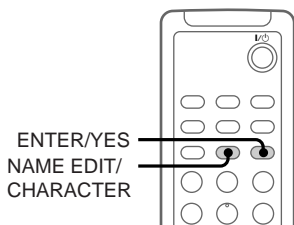
Recording on an MD

If you use a partially recorded MD, recording starts after the recorded tracks. To erase the recorded contents, see “Erasing recordings” on page 45.



continued

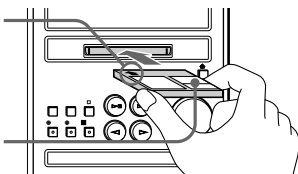
Recording a CD on an MD or a tape (continued)



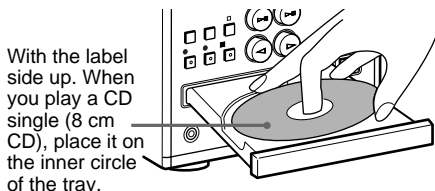
1 Insert a recordable MD.

With the arrow pointing toward the deck

With the label side up, and the shutter on the righthand side



2 Press CD and place a CD on the disc tray.

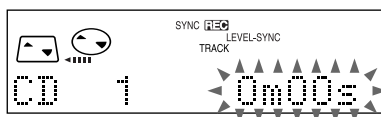


3 Press CD to close the disc tray.

4 Press SYNCHRO REC repeatedly until "CD-MD SYNC ?" appears.

5 Press ENTER/START.

The MD deck stands by for recording and the CD player pauses for play.



6 Press ENTER/START again.

Recording starts. When the recording is completed, the CD player and the MD deck stop automatically.

To stop recording

Press .

Tips

- If you use a partially recorded MD, recording starts after the recorded tracks.
- The track numbers of the CD are recorded on to the MD automatically.
- Depending on the disc, CD TEXT information may also be recorded (except when you record on an MD and a tape at the same time). If "CD-TEXT" flashes during recording, press NAME EDIT/CHARACTER on the remote, and then press ENTER/YES on the remote to record the title of the current track. (If "CD-TEXT" is lit, it is automatically recorded.)

Note

If "Cannot SYNC!" appears, a disc is not loaded or you cannot record on that MD (see page 72).

If the MD becomes full during recording

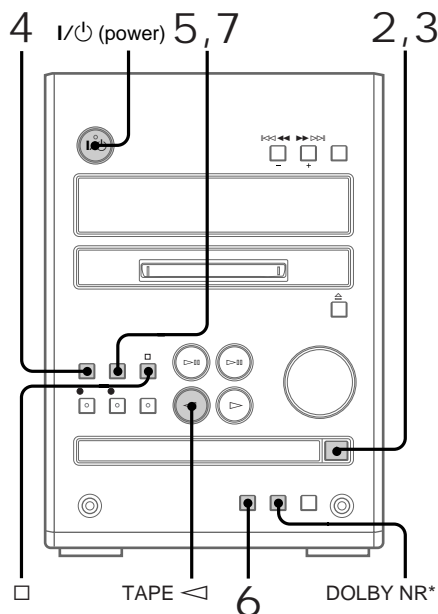
The CD player and the MD deck stop automatically.

Before pulling out the mains lead

MD recording is completed when the MD Table of Contents (TOC) is updated. The TOC is updated when you eject the MD or press I/⏻ to turn off the system. Do not pull out the mains lead before updating the TOC (while "TOC" is lit) or while updating the TOC (while "TOC" or "STANDBY" is flashing) to ensure a complete recording.

Recording on a tape

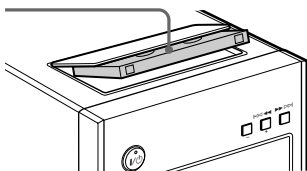
You can use TYPE I (normal) or TYPE II (CrO₂) tape.



* This tape deck equipped with the Dolby B-type noise reduction system.

- 1 Press to open the cover and insert a blank tape.

With the side you want to record on facing up



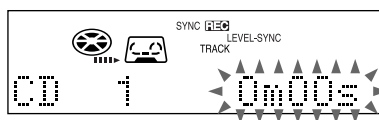
- 2 Press CD and place a CD on the disc tray.

With the label side up. When you play a CD single (8 cm CD), place it on the inner circle of the tray.



- 3 Press CD to close the disc tray.
- 4 Press SYNCHRO REC repeatedly until "CD-TAPE SYNC ?" appears.
- 5 Press ENTER/START.

The tape deck stands by for recording and the CD player pauses for play.



- 6 Press DIRECTION repeatedly until appears to record on one side or (or) to record on both sides.
- 7 Press ENTER/START.

Recording starts. When the recording is completed, the CD player and the tape deck stop automatically.

To stop recording
Press .

continued

Recording a CD on an MD or a tape (continued)

Tips

- When you want to record on the bottom side, press TAPE ◀ in step 6.
- When you record on both sides, be sure to start from the top side. If you start from the bottom side, recording stops at the end of the bottom side.
- If you select both sides recording and the tape reaches the end of the top side part-way through a track, the entire track is recorded again from the beginning of the bottom side.
- When you want to reduce the hiss noise in low-level, high-frequency signals, press DOLBY NR after step 5 so “DOLBY NR” appears in the display.

Note

If “Cannot SYNC!” appears, a disc or a tape is not loaded or you cannot record on that tape (see page 73).

Recording on an MD and a tape at the same time

- 1 Perform step 1 of “Recording on an MD” (see page 11) and steps 1 to 3 of “Recording on a tape” (see page 13).
- 2 Press SYNCHRO REC repeatedly until “DUAL SYNC ?” appears.
- 3 Perform steps 5 to 7 of “Recording on a tape”.

Tips

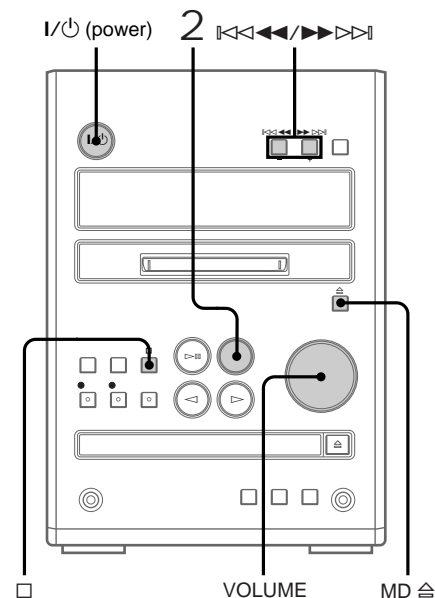
- Even if the MD or the tape ends part-way through the recording, the other continues recording.
- If you select both sides recording and the tape reaches the end of the top side part-way through a track, the entire track is recorded again from the beginning of the bottom side. In this case, the entire track may also be recorded again on the MD.

Note

If “Cannot SYNC!” appears, a disc or a tape is not loaded or you cannot record on that tape (see pages 72 and 73).

Playing an MD

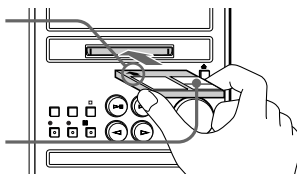
To turn on the system, press I/⏻ (power). You can play an MD just like a CD.



- 1 Insert an MD.

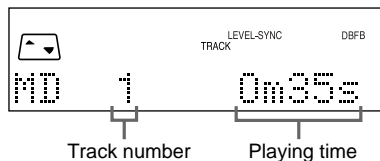
With the arrow pointing toward the deck

With the label side up, and the shutter on the righthand side



- 2 Press MD ▷⏮.

Play starts. The indicator on the MD ▷⏮ button lights green.



| To | Do this |
|-------------------------|---|
| Stop play | Press □. |
| Pause | Press MD ▷◁. The indicator on the MD ▷◁ button lights orange. Press again to resume play. |
| Select a track | Press ◀◀◀ or ▶▶▶ repeatedly. |
| Find a point in a track | Keep pressing ◀◀◀ or ▶▶▶ during play and release it at the desired point. |
| Remove the MD | Press MD ⏏. |
| Adjust the volume | Turn VOLUME. |

Tips

- You can start playing from the desired track in step 2.
 - Press ◀◀◀ or ▶▶▶ repeatedly until the desired track appears.
 - Press MD ▷◁.
 Or, press the number buttons on the remote. The playback automatically starts. To enter track numbers 10 or over, press >10 (press twice to enter 100 or over), then press the track number. To enter 0, use the 10/0 button.
- Pressing MD ▷◁ when the system is off automatically turns on the system and starts MD play if there is an MD in the system (**One Touch Play**).
- You can switch from another source to the MD deck and start playing an MD just by pressing MD ▷◁ (**Automatic Source Selection**).

Note

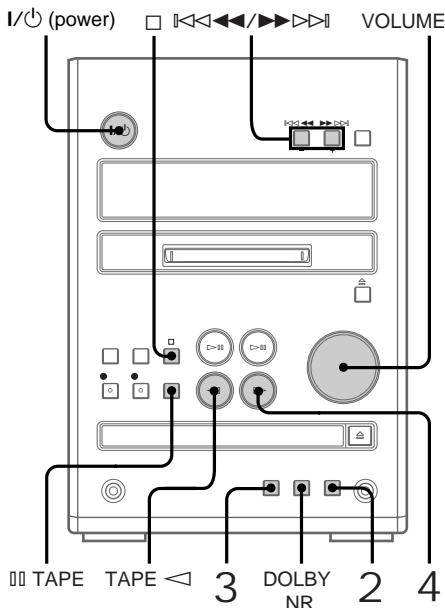
Do not use an MD on which the label sticks out from the edge or on which the label is not positioned correctly. Such labels can cause the MD deck to malfunction.

Playing a tape

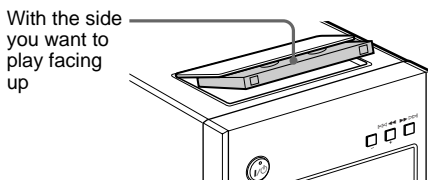
You can use any type of tape, TYPE I (normal), TYPE II (CrO₂) or TYPE IV (metal), since the tape deck automatically detects the tape type (ATS^{*1}).

To turn on the system, press I/⏻ (power).

^{*1} ATS: Automatic Tape Selection.



- Press to open the cover and insert a recorded tape.







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

Playing a tape (continued)

- 2




































Press FUNCTION repeatedly until “TAPE” appears.
- 3

Press DIRECTION repeatedly until  appears to play one side or  (or *2) to play both sides.
- 4





Press TAPE .

The indicator on the TAPE  button lights green, then the tape starts playing.
Press TAPE  to play the bottom side.

*2 The tape deck stops automatically after repeating the sequence five times.

| To | Do this |
|-----------------------------------|---|
| Stop play | Press  . |
| Pause | Press  TAPE. The indicator on the  TAPE button lights orange. Press again to resume play. |
| Find the succeeding track (AMS*3) | <div>Press  for the top side during playback.</div> <div>Press  for the bottom side during playback.</div> <div>Each time you press the button, the display shows the number of tracks to be skipped.</div> |
| Find the preceding track (AMS*3) | <div>Press  for the top side during playback.</div> <div>Press  for the bottom side during playback.</div> <div>Each time you press the button, the display shows the number of tracks to be skipped.</div> |
| Fast-forward | Press     or     in stop mode. |
| Rewind | Press     or     in stop mode. |
| Remove the cassette | Press to open the cover of the tape deck. |
| Adjust the volume | Turn VOLUME. |

*3 The Automatic Music Sensor (AMS) feature detects a blank space of more than four seconds between tracks to locate tracks quickly.

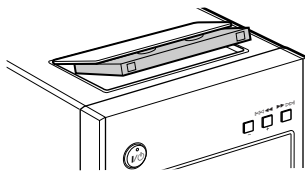
- Tips
- Pressing TAPE  or  when the system is off automatically turns on the system and starts playing a tape if there is a cassette in the system (**One Touch Play**).
 - You can switch from another source to the tape deck and start playing a tape just by pressing TAPE  or  (**Automatic Source Selection**).
 - To listen to a tape recorded with the Dolby noise reduction system, press DOLBY NR so “DOLBY NR” appears in the display.

- Note
- The AMS feature may not work in the following cases:
- the blank space between tracks is four seconds or less.
 - the sound source recorded on the right channel is different from that on the left channel.
 - low volume or low sound continues for a long time.
 - the TV is too close to the system.

Recording a tape on an MD — TAPE-MD Synchro Recording

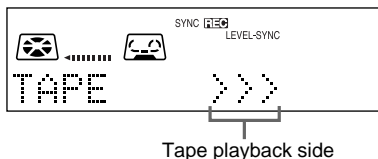
You can make an analogue recording of a tape on an MD. You can use TYPE I (normal), TYPE II (CrO₂) or TYPE IV (metal) tape, since the tape deck automatically detects the tape type. To turn on the system, press I/⏻ (power).

- 2 Press to open the cover and insert a tape.



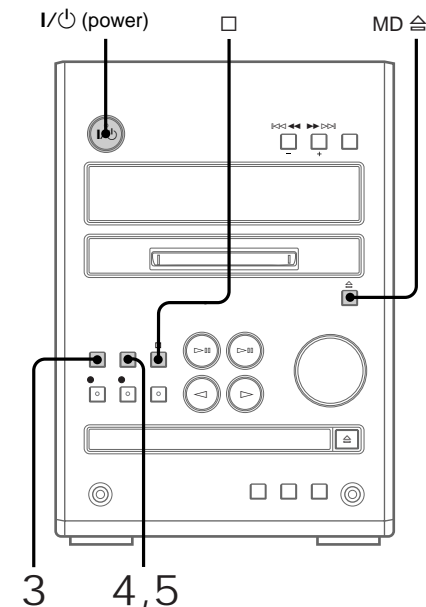
- 3 Press SYNCHRO REC repeatedly until "TAPE-MD SYNC ?" appears.

- 4 Press ENTER/START.
The MD deck stands by for recording and the tape deck pauses for play.



* >>> appears for the top side, and <<< for the bottom side. To play the side not indicated, press □ and remove the cassette to reverse the tape side, then perform steps 3 and 4 again.

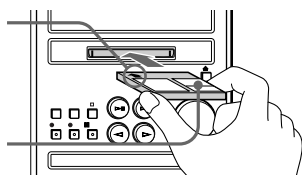
- 5 Press ENTER/START again.
Recording starts. When the recording is completed, the tape deck and the MD deck stop automatically.



- 1 Insert a recordable MD.

With the arrow pointing toward the deck

With the label side up, and the shutter on the righthand side



To stop recording

Press □.

Tips

- If you use a partially recorded MD, recording starts after the recorded tracks.
- If the Smart Space function is on and there is no sound input for about 3 seconds or more (but less than 30 seconds) while recording, the MD deck replaces this silence with a blank of about 3 seconds and continues recording. However, this function may not activate if there is noise.

continued

Recording a tape on an MD (continued)

Note

If “Cannot SYNC!” appears, a disc is not loaded or you cannot record on that MD (see page 72).

If the MD becomes full during recording

The tape deck and the MD deck stop automatically.

Before pulling out the mains lead

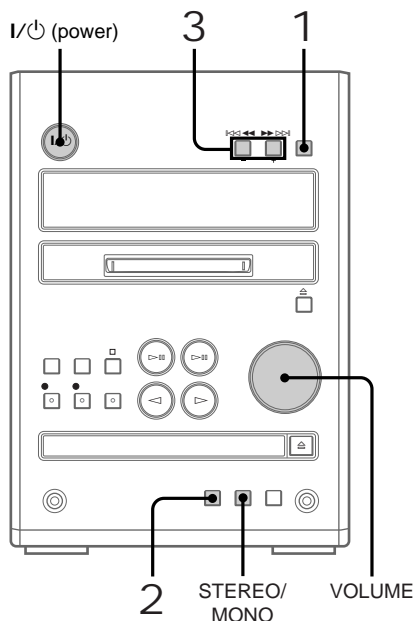
MD recording is completed when the MD Table of Contents (TOC) is updated. The TOC is updated when you eject the MD or press I/⏻ to turn off the system. Do not pull out the mains lead before updating the TOC (while “TOC” is lit) or while updating the TOC (while “TOC” or “STANDBY” is flashing) to ensure a complete recording.

Listening to the radio

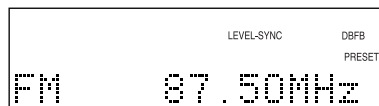
— Preset Tuning

Preset radio stations in the tuner’s memory first (see page 7).

To turn on the system, press I/⏻ (power).



- 1 Press TUNER/BAND to select “FM” or “AM”.
- 2 Press TUNING MODE repeatedly until “PRESET” appears.



- Press TUNING + or – to select the desired preset station.



Preset number and frequency (or station name* or RDS station name**)

* The station name appears only if you have labelled the station (see page 59).

** European model only.

When you preset only one station, “ONE PRESET” appears in the display.

| To | Do this |
|--------------------|--|
| Turn off the radio | Press I/⏻ to turn off the system. |
| Adjust the volume | Turn VOLUME. |

To select the preset number using the remote

Press the number buttons on the remote in step 3. To enter preset numbers 10 or over, press >10 and the preset number. To enter 0, use the 10/0 button.

Listening to non-preset radio stations

- Press TUNING MODE repeatedly until “MANUAL” appears in step 2, then press TUNING + or – to tune in the desired station (**Manual Tuning**).
- Press TUNING MODE repeatedly until “AUTO” appears in step 2, then press TUNING + or –. The frequency indication changes and the scanning stops when the system tunes in a station (**Automatic Tuning**).

To cancel Automatic Tuning

Press TUNING MODE.

Tips

- Pressing TUNER/BAND when the system is off automatically turns on the system and tunes in the last received station (**One Touch Play**).
- You can switch from another source to the tuner just by pressing TUNER/BAND (**Automatic Source Selection**).
- To improve broadcast reception, adjust the supplied aerials, or connect a commercially available external aerial (see page 65).
- When an FM stereo programme has static noise, press STEREO/MONO until “MONO” appears. There will be no stereo effect, but the reception will improve. Press the button again to restore the stereo effect.

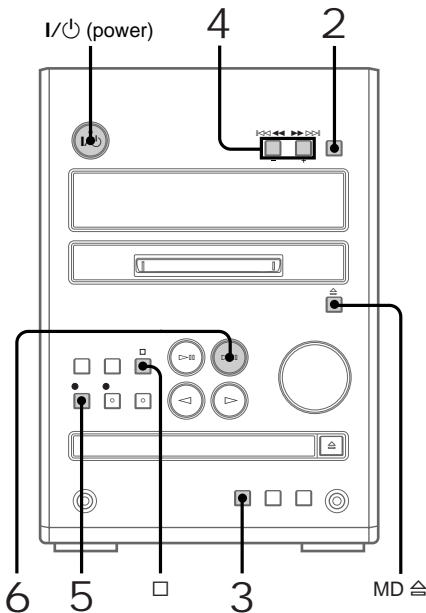
Recording from the radio — Manual Recording

You can make an analogue recording of a radio programme on an MD or a tape.

Recording on an MD

If you use a partially recorded MD, recording starts after the recorded tracks. To erase the recorded contents, see “Erasing recordings” on page 45.

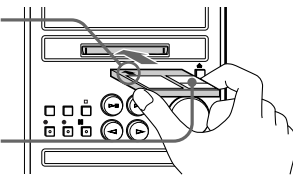
To turn on the system, press I/⏻ (power).



1 Insert a recordable MD.

With the arrow pointing toward the deck

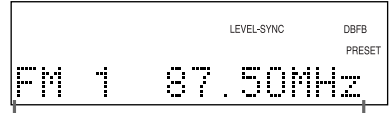
With the label side up, and the shutter on the righthand side



2 Press TUNER/BAND to select “FM” or “AM”.

3 Press TUNING MODE repeatedly until “PRESET” appears.

4 Press TUNING + or – to select the desired preset station.



Preset number and frequency (or station name* or RDS station name**)

* The station name appears only if you have labelled the station (see page 59).

** European model only.

When you preset only one station, “ONE PRESET” appears in the display.

You can select the preset numbers with the number buttons on the remote.

5 Press ● MD.

The MD deck stands by for recording and the indicator on the ● MD button lights red.

6 Press MD ▷◁.

Recording starts.

To stop recording

Press □.

Tips

- If noise is heard while recording an AM radio programme, move the AM loop aerial to reduce the noise or connect a ground wire to the \hbar terminal (see page 65).
- You can record the MD in monaural format. For details, see “Monaural recording” on page 41.
- To record non-preset stations, select “MANUAL” in step 3, then press TUNING + or – to tune in the desired station.

Note

If the MD is record protected, “C11” and “Protected” appear alternately and the MD cannot be recorded. Remove the MD, then slide the record protection tab to the closed position (see page 32).

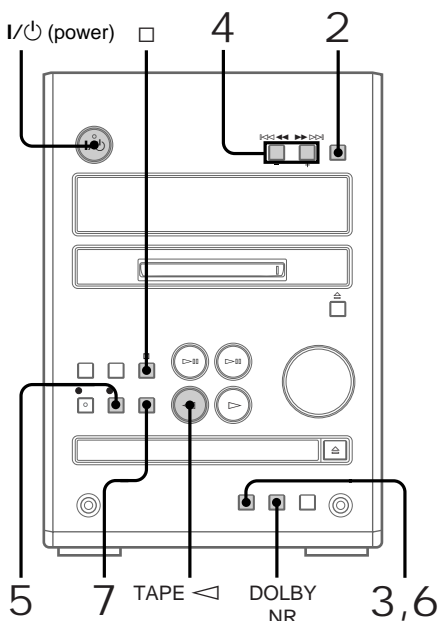
Before pulling out the mains lead

MD recording is completed when the MD Table of Contents (TOC) is updated. The TOC is updated when you eject the MD or press I/⏻ to turn off the system. Do not pull out the mains lead before updating the TOC (while “TOC” is lit) or while updating the TOC (while “TOC” or “STANDBY” is flashing) to ensure a complete recording.

Recording on a tape

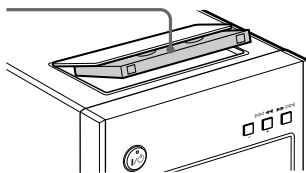
You can use TYPE I (normal) or TYPE II (CrO₂) tape. The recording level is automatically adjusted.

To turn on the system, press I/⏻ (power).



- 1 Press to open the cover and insert a blank tape.

With the side you want to record on facing up



- 2 Press TUNER/BAND to select “FM” or “AM”.
- 3 Press TUNING MODE repeatedly until “PRESET” appears.
- 4 Press TUNING + or – to select the desired preset station.



Preset number and frequency (or station name* or RDS station name**)

* The station name appears only if you have labelled the station (see page 59).

** European model only.

When you preset only one station, “ONE PRESET” appears in the display.

You can select the preset numbers with the number buttons on the remote.

- 5 Press ● TAPE.
The tape deck stands by for recording and the indicator on the ● TAPE button lights red.
- 6 Press DIRECTION repeatedly until ⇄ appears to record on one side or ⇄⇄ (or ⇄⇄) to record on both sides.

continued


Recording from the radio
(continued)

7 Press **[[** TAPE.
Recording starts.

To stop recording

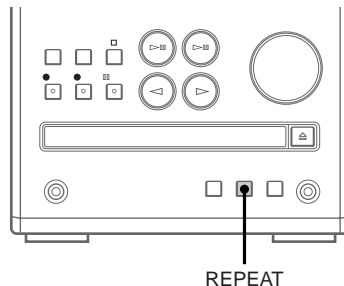
Press \square .

Tips

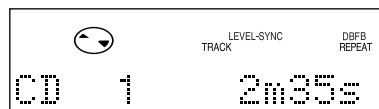
- If noise is heard while recording an AM radio programme, move the AM loop aerial to reduce the noise or connect a ground wire to the **h** terminal (see page 65).
- When you want to record on the bottom side, press **TAPE**  in step 6.
- When you record on both sides, be sure to start from the top side. If you start from the bottom side, recording stops at the end of the bottom side.
- To record non-preset stations, select “MANUAL” in step 3, then press **TUNING** + or – to tune in the desired station.
- When you want to reduce the hiss noise in low-level, high-frequency signals, press **DOLBY NR** after step 5 so “DOLBY NR” appears in the display.

Playing CD tracks repeatedly — Repeat Play

You can repeat a CD in normal play, Shuffle Play and Programme Play.



➔ Press REPEAT during play until
“REPEAT” or “REPEAT 1” appears.



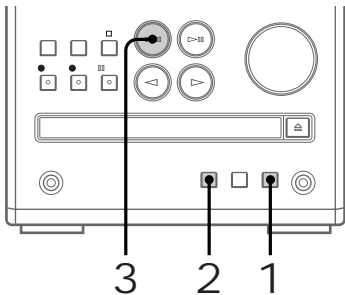
REPEAT: For all the tracks on the CD.
REPEAT 1: For a single track only.

To cancel Repeat Play

Press REPEAT until “REPEAT” or “REPEAT 1” disappears.

Playing CD tracks in random order — Shuffle Play

You can play all the tracks on a CD in random order.



- 1 Press **FUNCTION** repeatedly until “CD” appears.
- 2 Press **PLAY MODE** repeatedly until “SHUFFLE” appears.



- 3 Press **CD** >|||. Shuffle Play starts.

To cancel Shuffle Play

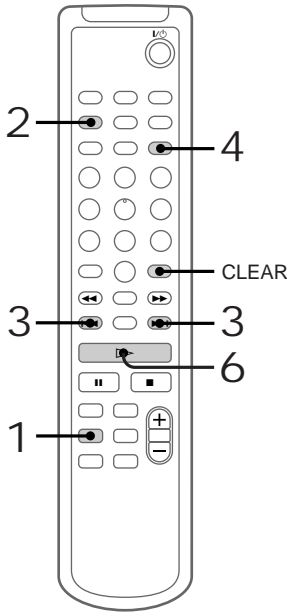
Press **PLAY MODE** repeatedly until “SHUFFLE” and “PGM” disappear.

Tips

- You can start Shuffle Play during normal play by displaying “SHUFFLE.”
- To skip a track, press >|||.

Programming CD tracks — Programme Play

You can make a programme of up to 25 tracks in the order you want them to be played. You can also make a Synchro Recording of the programme on an MD or a tape (see pages 32 and 53).



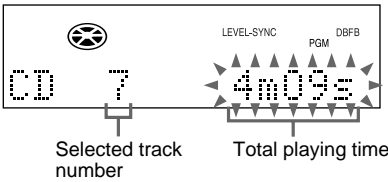
- 1 Press **CD** to switch the function to CD.
- 2 Press **PLAY MODE** repeatedly until “PGM” appears.



continued

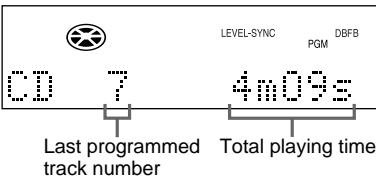
Programming CD tracks
(continued)

- 3 Press **◀◀** or **▶▶** repeatedly until the desired track appears in the display.



- 4 Press **ENTER/YES**.

The track is programmed.
“Step” appears, followed by the number of the track in the programmed sequence. The number of the last programmed track appears, followed by the total playing time of the programme. If you made a mistake, you can clear the last programmed track from the programme by pressing **CLEAR**.

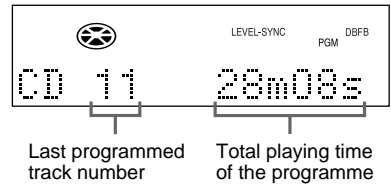


- 5 To programme additional tracks, repeat steps 3 and 4.

- 6 Press **▷**.
All the tracks play in the order you selected.

To check the total number of programmed tracks

Press **DISPLAY** in stop mode. The total number of programmed steps appears, followed by the last programmed track number and the total playing time of the programme.



To check the programme order

Press **◀◀** or **▶▶** repeatedly during Programme Play.

| To | Do this |
|---|--|
| Cancel Programme Play | Press ■ , then press PLAY MODE repeatedly until “PGM” and “SHUFFLE” disappear. |
| Add a track to the programme (in stop mode) | Do steps 3 and 4. |
| Erase the entire programme | Press ■ , when Programme Play is in stop mode. |

To select the desired track using the number buttons

Press number buttons instead of performing steps 3 to 5.

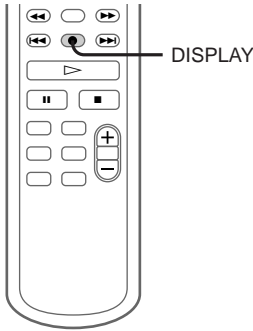
To enter track numbers 10 or over, press **>10** and the track number. To enter 0, use the **10/0** button.

Tips

- The programme you made remains after Programme Play finishes. To play the same programme again, press **▷**.
- “Step Full” appears when you try to programme 26 or more tracks (steps).
- “--m--s” appears when the total CD programme time exceeds 100 minutes, or when you select a CD track whose number is 21 or over.

Using the CD display

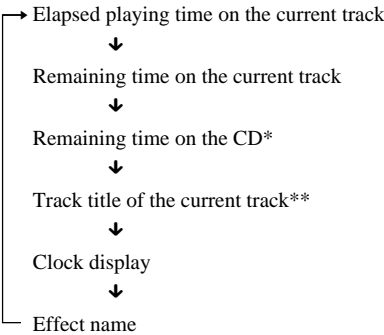
You can check the remaining time on the current track or on the CD. When a CD TEXT disc is loaded, you can check the information recorded on the disc, such as the titles or artist names.



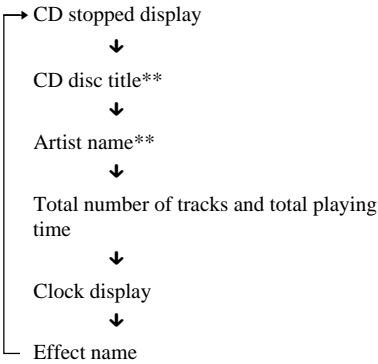
➔ Press DISPLAY.

Each time you press the button during normal play or in stop mode, the display changes as follows:

During normal play



In stop mode



* The remaining time of the programme appears during Programme Play.

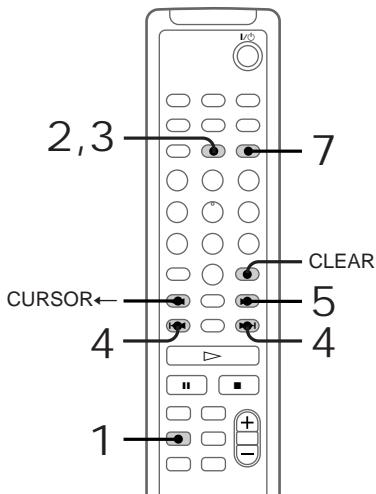
** If a CD that has no title is loaded, nothing appears. When the CD contains more than 50 tracks, CD TEXT is not displayed from track 51 on.

Labelling a CD — Disc Memo

You can label up to 50 CDs with titles of up to 20 symbols and characters. Whenever you load a labelled CD, the title appears in the display.

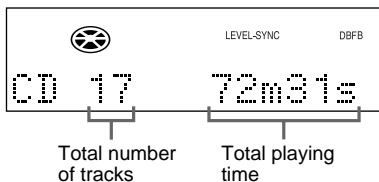
Notes

- You cannot label a CD for which “CD-TEXT” appears in the display.
- When labelling CDs for the first time, be sure to perform the operations in “Erasing all disc titles stored in the system memory” on page 27 beforehand.**



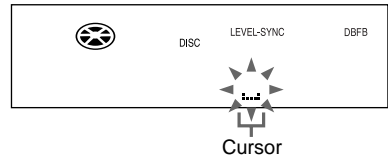
1 Press CD to switch the function to CD.

Make sure the total number of tracks and the total playing time appear in the display in stop mode. If “SHUFFLE” or “PGM” appears in the display, press PLAY MODE repeatedly until both disappear.



2 Press NAME EDIT.

The cursor starts flashing.



3 Press CHARACTER to select the desired type of character.

Each time you press the button, the display changes as follows:

□ (Blank space) → A (Upper cases) → a (Lower cases) → 0 (Numbers) → ! (Symbols) → □ (Blank space) → ...

4 Press ◀◀ or ▶▶ repeatedly to select the desired character.

To enter a blank space

Press CURSOR→ without pressing ◀◀ or ▶▶. You cannot enter a space as the first character.

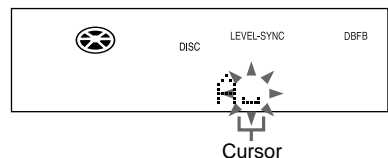
To enter a symbol

You can use the following 24 symbols.

! " # \$ % & ' () * + , - . / : ; < = > ? @ _ `

5 Press CURSOR→.

The character you selected in step 4 stops flashing and the cursor shifts to the right.



- 6 Repeat steps 3 to 5 to complete the entire title.

If you made a mistake

Press **CURSOR**← or → until the character you want to change flashes, then repeat steps 3 to 5.

To erase a character

Press **CLEAR** while the character is flashing. You cannot insert characters.

- 7 Press **ENTER/YES** to complete the labelling procedure.

The disc title is stored in the system memory and then the original display appears.

To cancel labelling

Press **MENU/NO**.

Checking the disc titles

- 1 Press **MENU/NO** in stop mode.
- 2 Press **◀◀** or **▶▶** repeatedly until “Name Check ?” appears, then press **ENTER/YES**.
- 3 Press **◀◀** or **▶▶** repeatedly to select the disc titles stored in the system memory between 001 and 050.

To check the current disc title

Press **SCROLL** in stop mode.

Erasing a disc title

- 1 Press **MENU/NO** in stop mode.
- 2 Press **◀◀** or **▶▶** repeatedly until “Name Erase ?” appears, then press **ENTER/YES**.
The disc title appears scrolling in the display.
“No Name” appears if no disc title is labelled.
- 3 Press **ENTER/YES** again.
“Complete !!” appears and the disc title is erased.

To cancel erasing

Press **MENU/NO** during steps 1 and 2.

Erasing all disc titles stored in the system memory

- 1 Press **MENU/NO** in stop mode.
- 2 Press **◀◀** or **▶▶** repeatedly until “All Erase ?” appears, then press **ENTER/YES**.
“All Erase ??” appears.
- 3 Press **ENTER/YES** again to erase disc titles.
“Complete !!” appears and all disc titles are erased.

To cancel erasing

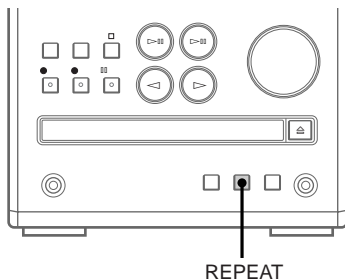
Press **MENU/NO** during steps 1 and 2.

Note

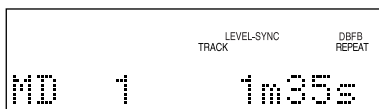
To ensure that disc titles are not erased from memory, have the system connected to mains power at least once a month.

Playing MD tracks repeatedly — Repeat Play

You can repeat an MD in normal play, Shuffle Play and Programme Play.



- ➔ Press REPEAT during play until “REPEAT” or “REPEAT 1” appears.



REPEAT: For all the tracks on the MD.
REPEAT 1*: For a single track only.

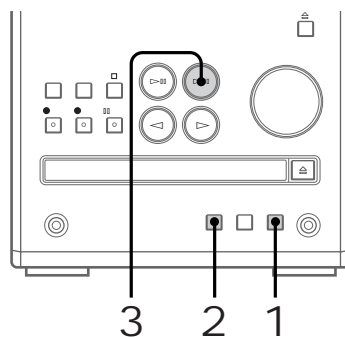
* You cannot repeat a single track during Shuffle Play or Programme Play.

To cancel Repeat Play

Press REPEAT until “REPEAT” or “REPEAT 1” disappears.

Playing MD tracks in random order — Shuffle Play

You can play all the tracks on an MD in random order.



- 1 Press FUNCTION repeatedly until “MD” appears.
- 2 Press PLAY MODE repeatedly until “SHUFFLE” appears in stop mode.



- 3 Press MD ▷◻. Shuffle Play starts.

To cancel Shuffle Play

Press ◻ to stop Shuffle Play, then press PLAY MODE repeatedly until “SHUFFLE” and “PGM” disappear.

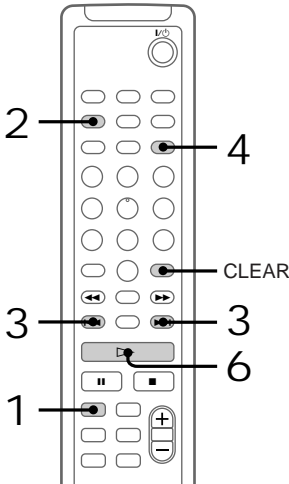
Tip

To skip a track, press ►►►◻.

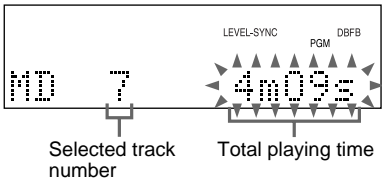
Programming MD tracks

— Programme Play

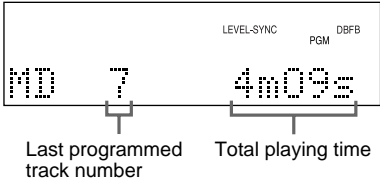
You can make a programme of up to 25 tracks in the order you want them to be played.



- 1 Press MD to switch the function to MD.
- 2 Press PLAY MODE repeatedly until “PGM” appears in stop mode.
- 3 Press **◀** or **▶** repeatedly until the desired track appears in the display.

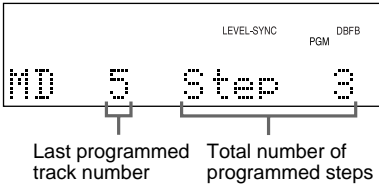


- 4 Press ENTER/YES.
The track is programmed.
“Step” appears, followed by the number of the track in the programmed sequence. The number of the last programmed track appears, followed by the total playing time of the programme. If you made a mistake, you can clear the last programmed track from the programme by pressing CLEAR.



- 5 To programme additional tracks, repeat steps 3 and 4.
- 6 Press **▶**.
All the tracks play in the order you selected.

To check the total number of programmed tracks
Press DISPLAY in stop mode. The total number of programmed steps appears.



continued

Programming MD tracks
(continued)

To check the programme order
Press ◀◀ or ▶▶ repeatedly during Programme
Play.

| To | Do this |
|---|--|
| Cancel Programme Play | Press ■, then press PLAY MODE repeatedly until “PGM” and “SHUFFLE” disappear. |
| Add a track to the programme (in stop mode) | Do steps 3 and 4. |
| Erase the last programmed track | Press CLEAR in stop mode. Each time you press the button, the last programmed track is erased. |

To select the desired track using
the number buttons

Press number buttons instead of performing steps
3 to 5.

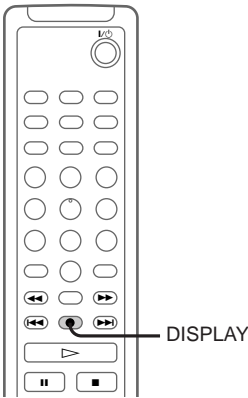
To enter track numbers 10 or over, press >10
(press twice to enter 100 or over) and the track
number. To enter 0, use the 10/0 button.

Tips

- The programme you made remains after
Programme Play finishes. To play the same
programme again, press ▷.
- “Program Full !” appears when you try to
programme 26 or more tracks (steps).
- “---m--s” appears when the total MD programme
time exceeds 200 minutes.

Using the MD display

You can check the total number of tracks, the total
playing time and the remaining time on the MD.



➔ Press DISPLAY.

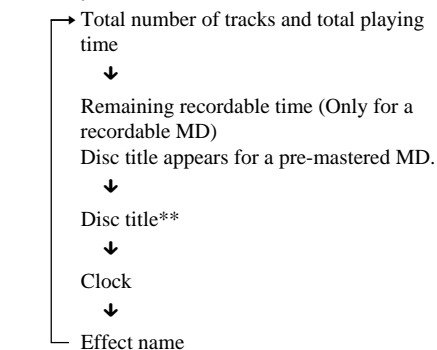
Each time you press the button during
normal play or in stop mode, the display
changes as follows:

During normal play

- ➔ Elapsed playing time and the track
number on the current track
- ↓
- Remaining time and the track number on
the current track
- ↓
- Remaining time on the MD
- ↓
- Track title of the current track*
- ↓
- Clock
- ↓
- Effect name

* “No Name” appears when no track title is labelled.

In stop mode



**“No Name” appears if no disc title is labelled.

Tips

- You can check a track title at any time during play. If you press **SCROLL**, a track title appears scrolling in the display. Press **SCROLL** at any point during the scroll display to stop the scrolling. Press **SCROLL** again to restart the scrolling.
- To label a disc title or a track title, see “Labelling an MD” on page 43.

Before you start recording

MDs (Mini Disc) let you digitally record and play music with high quality sound. Another feature of MDs is track marking. The track marking feature lets you quickly locate a specific point or easily edit the recorded tracks. However, depending on the source you record, the recording method and the way the track numbers are recorded differ.

When the source you record from is:

- This system’s CD player
 - The MD deck performs digital recording.*¹
 - Track numbers are automatically marked as on the original CD.
- This system’s tuner and other components connected to the **LINE IN** jack (e.g., a portable MD)
 - The MD deck performs analogue recording.*²
 - A track number is marked at the beginning of a recording, but when you turn on the **Level Synchro Recording** function (see page 37), track numbers are automatically marked in sync with the level of the input signal.

*¹ For details on the limitations of digital recording, see page 68.

*² Even if a digital component is connected to the **LINE IN** jack, the MD deck performs analogue recording.

Note on MD track numbers


On an MD, the track numbers (track sequence), track start and end point information, etc., are recorded in the **TOC***³ area independent of the sound information. You can edit recorded tracks quickly by modifying the **TOC** information.

*³ **TOC**: Table Of Contents

continued

Before you start recording
(continued)

After recording

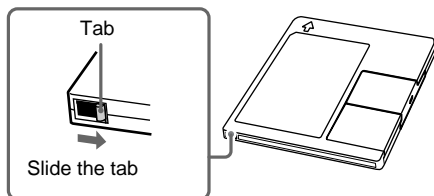
- ➔ Press MD  to remove the MD or press I/⏻ (power) to turn off the system.

“TOC” lights up, or either “TOC” or “STANDBY” starts flashing. The TOC is updated and recording is completed.

Before pulling out the mains lead MD recording is completed when the MD Table of Contents (TOC) is updated. The TOC is updated when you eject the MD or press I/⏻ to turn off the system. Do not pull out the mains lead before updating the TOC (while “TOC” is lit) or while updating the TOC (while “TOC” or “STANDBY” is flashing) to ensure a complete recording.

Protecting a recorded MD

- To protect a recorded MD, slide the tab on the side of the MD to open the slot. In this position, the MD cannot be recorded. To record on the MD, slide the tab to close the slot.

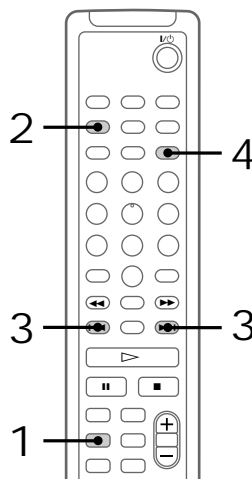
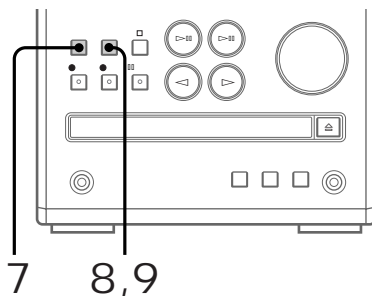


- If the MD is record protected, “C11” and “Protected” appear alternately and the MD cannot be recorded. Remove the MD, then slide the record protection tab to the closed position.

Recording your favourite CD tracks on an MD

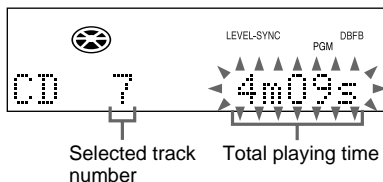
— CD-MD Synchro Recording

You can select your favourite CD tracks with the Programme Play feature, then record the programme on an MD using the CD Synchro Recording feature. If you use a partially recorded MD, recording starts after the recorded tracks.

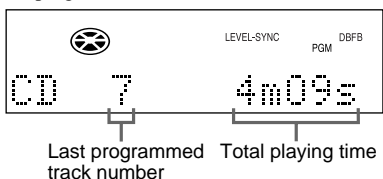


Selecting the tracks

- 1 Press CD on the remote to switch the function to CD.
- 2 Press PLAY MODE on the remote repeatedly until “PGM” appears.
- 3 Press ◀◀ or ▶▶ on the remote repeatedly until the desired track number appears.



- 4 Press ENTER/YES on the remote.
The track is programmed.
“Step” appears, followed by the number of the track in the programmed sequence. The number of the last programmed track appears, followed by the total playing time of the programme.



- 5 To programme additional tracks, repeat steps 3 and 4.

Recording on an MD

- 6 Insert a recordable MD.

- 7 Press SYNCHRO REC repeatedly until “CD-MD SYNC ?” appears.

- 8 Press ENTER/START.
The MD deck stands by for recording and the CD player pauses for play.

- 9 Press ENTER/START again.
CD playing and MD recording start. The CD player and the MD deck stop automatically when the recording is completed.

To stop recording

Press □.

If the MD becomes full during recording

The CD player and the MD deck stop automatically.

To record on a tape at the same time

Insert a blank tape and select “DUAL SYNC ?” in step 7 of “Recording on an MD” on this page.

Before pulling out the mains lead

MD recording is completed when the MD Table of Contents (TOC) is updated. The TOC is updated when you eject the MD or press I/⏻ to turn off the system. Do not pull out the mains lead before updating the TOC (while “TOC” is lit) or while updating the TOC (while “TOC” or “STANDBY” is flashing) to ensure a complete recording.

Tip

The track numbers of the CD are recorded on to the MD automatically.

Note

If “Cannot SYNC!” appears, a disc is not loaded or you cannot record on that MD (see page 72).

continued

Labelling titles during recording

If “CD-TEXT” lights up or flashes during recording, you can record the CD TEXT information onto the MD as follows:

- Automatically during recording
If you record on an unrecorded or completely erased (see page 46) MD when “CD-TEXT” is lit, the CD TEXT information is automatically recorded.
- Manually during recording
When “CD-TEXT” flashes, press NAME EDIT on the remote, and then press ENTER/YES on the remote to record the title of the current track.

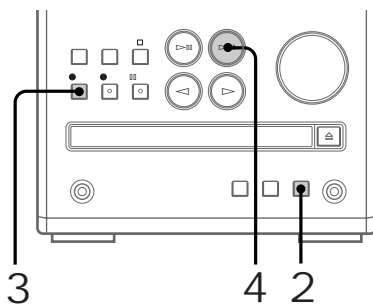
Notes

- Depending on the disc, the CD TEXT information may not be recorded automatically.
- When you record on an MD and a tape at the same time, the CD TEXT information is not recorded. Record this information after the recording is completed (see page 43).

Recording on an MD manually — Manual Recording

With manual recording, you can record just the portions you like from a CD, or start recording from the middle of the tape. You can also record a radio programme.

If you use a partially recorded MD, recording starts after the recorded tracks.



- 1 Insert a recordable MD.
- 2 Press FUNCTION repeatedly to select the desired source (e. g., TUNER) to record.
 - CD: Recording from the CD
 - TAPE: Recording from the tape
 - TUNER: Recording from the radio
- 3 Press ● MD.
The MD deck stands by for recording.
- 4 Press MD ▷◁. Recording starts.

- 5 Start playing the desired source to record.

When recording from this system's CD player, the track numbers are automatically marked. Press ● MD during recording to mark the track numbers at the desired point. If you want to mark track numbers automatically during recording from the radio, see "Marking track numbers" on page 37.

To stop recording

Press □.

Before pulling out the mains lead

MD recording is completed when the MD Table of Contents (TOC) is updated. The TOC is updated when you eject the MD or press I/⏻ to turn off the system. Do not pull out the mains lead before updating the TOC (while "TOC" is lit) or while updating the TOC (while "TOC" or "STANDBY" is flashing) to ensure a complete recording.

Tips

- You can adjust the recording level to the desired volume (see page 40).
- You can check the remaining recordable time on the MD during recording by pressing DISPLAY on the remote.

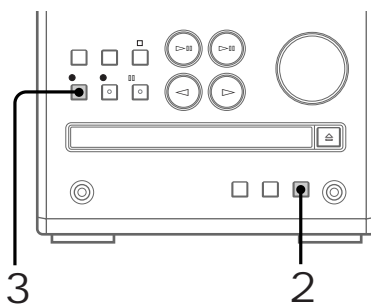
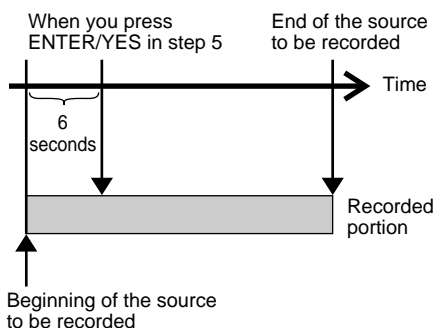
Note

If you pause recording during CD recording, a track number is recorded at that point. Also, note that the tracks might be recorded as the same single track with a single track number when the same single track of the same CD is recorded repeatedly.

Starting recording with 6 seconds of prestored audio data

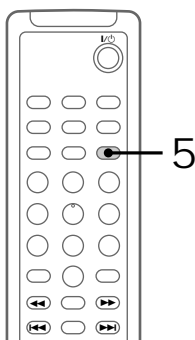
— Time Machine Recording

When recording from an FM or satellite broadcast, the first few seconds of material are often lost due to the time it takes you to ascertain the contents and press the record button. To prevent the loss of this material, the Time Machine Recording feature constantly stores the most recent audio data in a buffer memory. This lets you record the sound from 6 seconds (12 seconds for monaural recording) before starting recording, as shown in the illustration below:



continued

Starting recording with 6 seconds of prestored audio data (continued)



- 1 Insert a recordable MD.
- 2 Press FUNCTION repeatedly until the desired source (i.e., TUNER) to record appears.
- 3 Press ● MD.
The MD deck stands by for recording.
- 4 Start playing the desired source to record.
- 5 Press ENTER/YES on the remote at the desired point to start recording.
Recording of the source starts with the 6 seconds of audio data stored in the buffer memory.
If you use a partially recorded MD, recording starts after the recorded tracks.

To stop Time Machine Recording
Press □.

Before pulling out the mains lead MD recording is completed when the MD Table of Contents (TOC) is updated. The TOC is updated when you eject the MD or press I/⏻ to turn off the system. Do not pull out the mains lead before updating the TOC (while "TOC" is lit) or while updating the TOC (while "TOC" or "STANDBY" is flashing) to ensure a complete recording.

Note

The MD deck starts storing audio data when the deck stands by for recording in step 3 and you start playing the source. If less than 6 seconds have passed when you press ENTER/YES on the remote, Time Machine Recording starts with less than 6 seconds of audio data.

Marking track numbers

You can mark track numbers as follows:

- **Automatically during recording**

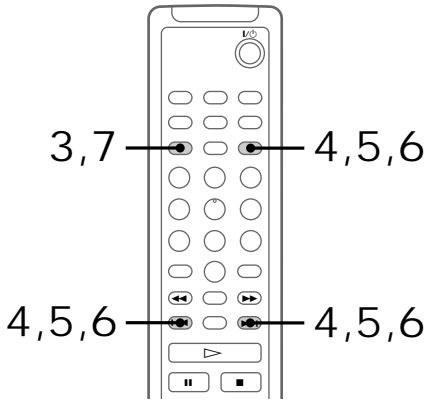
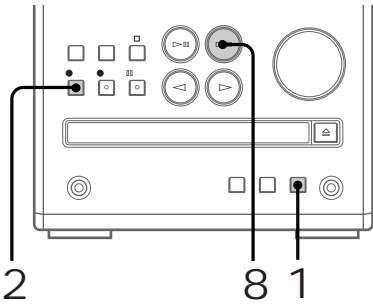
Track numbers are automatically marked as on the original source during recording from this system's CD player. Use the Level Synchro Recording function to automatically mark track numbers during recording from this system's tuner or components connected to the LINE IN jack. However, you cannot mark track numbers automatically if the sound source to be recorded is noisy (e.g., tapes or radio programmes) or during timer-recording.

- **At any point during recording**

You can mark track numbers during recording of any source.

- **After recording**

Use the Divide Function (see page 49).



The MD Deck — Recording

Marking track numbers automatically during recording — Level-Synchro Recording

The Level Synchro Recording function is factory set to on, so the track numbers are automatically marked. If “LEVEL-SYNC” does not appear during recording, turn on the Level Synchro Recording as follows. Track numbers are automatically marked when the input signal is continuously below a certain level for more than two seconds and then exceeds that level.

Note

You cannot mark track numbers automatically if the sound source to be recorded is noisy (e.g., tapes or radio programmes).

- 1 Press **FUNCTION** repeatedly until “TUNER” appears.
To record from other components connected to this system, select “LINE IN”.
- 2 Press **● MD** to stand by for recording.
- 3 Press **MENU/NO** on the remote.
- 4 Press **◀◀** or **▶▶** on the remote repeatedly until “Setup ?” appears, then press **ENTER/YES** on the remote.

continued

Marking track numbers (continued)

- 5 Press ◀◀ or ▶▶ repeatedly until “T.Mark Off” appears, then press ENTER/YES.
- 6 Press ◀◀ or ▶▶ repeatedly until “T.Mark LSync” appears, then press ENTER/YES.
“LEVEL-SYNC” lights up.
- 7 Press MENU/NO.
- 8 Press MD ▷◻◻.
Recording starts.

To stop recording

Press ◻.

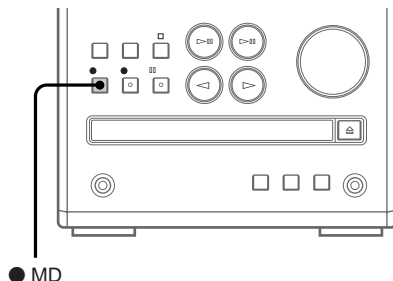
To cancel automatic track marking

- 1 Press MENU/NO on the remote during recording pause.
- 2 Press ◀◀ or ▶▶ on the remote repeatedly until “Setup ?” appears, then press ENTER/YES on the remote.
- 3 Press ◀◀ or ▶▶ repeatedly until “T.Mark LSync” appears, then press ENTER/YES.
- 4 Press ◀◀ or ▶▶ repeatedly until “T.Mark Off” appears, then press ENTER/YES.
- 5 Press MENU/NO.
“LEVEL-SYNC” disappears.

When “LEVEL-SYNC” is off, a track number is marked only at the beginning of each recording.

Marking track numbers at a specific point during recording — Track Mark

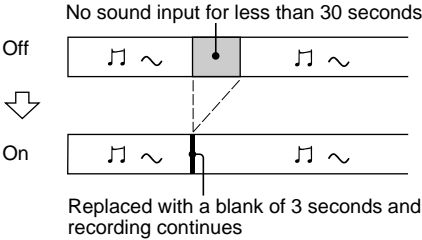
You can mark track numbers at any time during recording, regardless of the type of sound source.



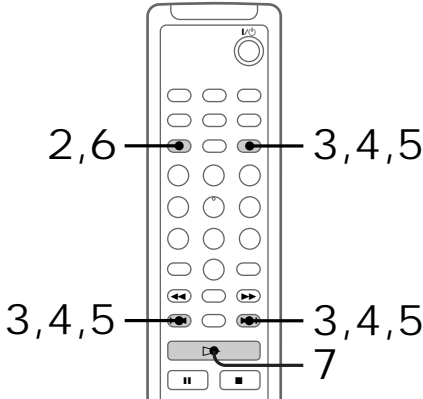
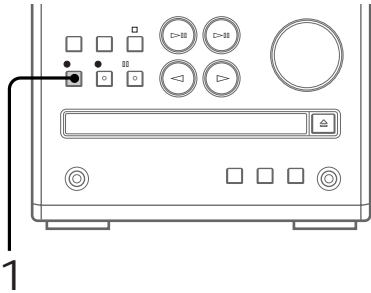
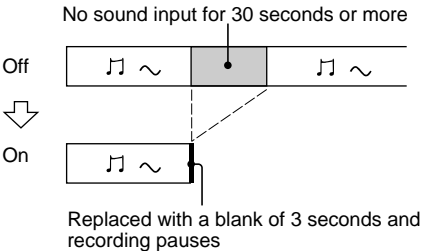
- ➔ Press ● MD during recording at the point you want to add a track mark.
The tracks following the added one are renumbered.

Making a space between tracks 3 seconds long — Smart Space

The Smart Space function lets you make the blank spaces between tracks 3 seconds long automatically while making a digital recording from a CD. For other types of recording, if the Smart Space function is on and there is no sound input for about 3 seconds or more (but less than 30 seconds) while recording, the MD deck replaces this silence with a blank of about 3 seconds and continues recording.



Auto Cut: When the Smart Space function is on, if there is no sound input for 30 seconds or more, the MD deck replaces this silence with a blank of about 3 seconds and enters recording pause.




- 1 Press ● MD to stand by for recording.
- 2 Press MENU/NO on the remote.
- 3 Press ◀◀ or ▶▶ on the remote repeatedly until “Setup ?” appears, then press ENTER/YES on the remote.
- 4 Press ◀◀ or ▶▶ repeatedly until “S.Space Off” (or “S.Space On”) appears, then press ENTER/YES.
- 5 Press ◀◀ or ▶▶ repeatedly until “S.Space On” appears, then press ENTER/YES.


continued

Making a space between tracks 3 seconds long (continued)

6 Press MENU/NO.

7 Press  on the remote.
Recording starts.







8 Start playing the desired source to record.

If there is an extended silence of less than 30 seconds, “Smart Space” appears, and the MD deck replaces the silence with a blank of about 3 seconds and continues recording.
If there is no sound input for 30 seconds or more, “Auto Cut” appears, and the MD deck replaces the silence with a blank of about 3 seconds and switches to recording pause.
Press  to restart the recording.

To stop recording

Press .

To turn off Smart Space and Auto Cut functions

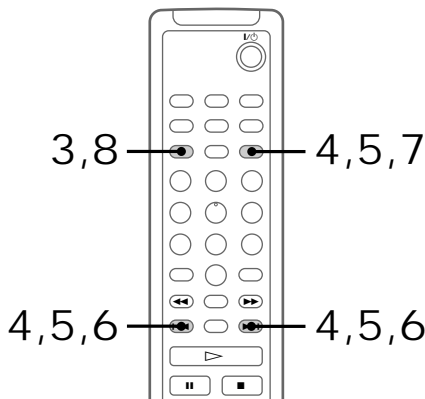
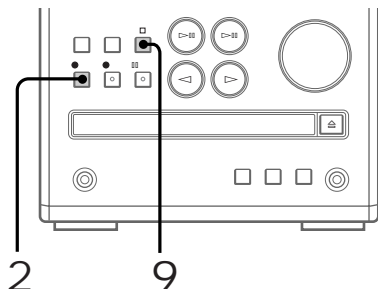
- 1 Press MENU/NO on the remote during recording pause.
- 2 Press  or  on the remote repeatedly until “Setup ?” appears, then press ENTER/YES on the remote.
- 3 Press  or  repeatedly until “S.Space On” appears, then press ENTER/YES.
- 4 Press  or  repeatedly until “S.Space Off” appears, then press ENTER/YES.
- 5 Press MENU/NO.


Tip

The Smart Space and Auto Cut functions are factory set to on. If you turn off the system or disconnect the mains lead, the MD deck will retain the last setting (S.Space On or Off).

Adjusting the recording level

When recording on an MD, you can adjust the recording level to the desired volume. You can adjust the recording level not only when making an analogue recording, but also when making a digital recording from a CD, etc.



- 1 Prepare the desired sound source to record and start play.
- 2 Confirm that the MD deck is in recording standby.
If not, press .

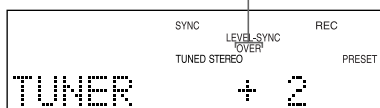
- 3 Press MENU/NO on the remote.
- 4 Press ◀◀ or ▶▶ on the remote repeatedly until “Setup ?” appears, then press ENTER/YES on the remote.

- 5 Press ◀◀ or ▶▶ repeatedly until “Level Adjust ?” appears, then press ENTER/YES.

- 6 Press ◀◀ or ▶▶ to adjust the recording level.

The recording level can be adjusted from -12 to +12. While monitoring the sound, adjust to the optimum level while making sure that “OVER” does not appear in the display at the loudest portion. The level meter appears in the display while adjusting the level. (The left channel is on the top, and the right channel is on the bottom.)

Adjust the level not to appear “OVER”



- 7 Press ENTER/YES.

- 8 Press MENU/NO.

- 9 Press □.

To stop recording

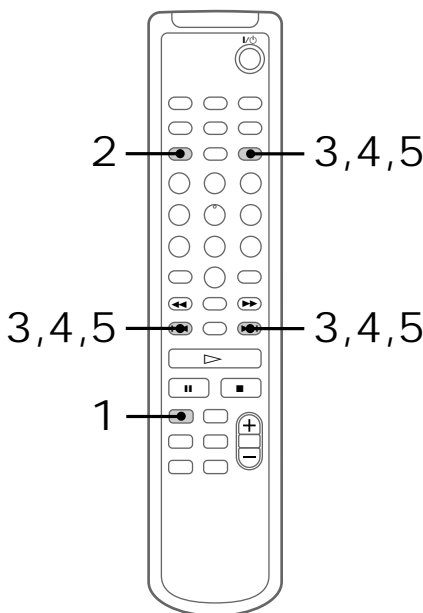
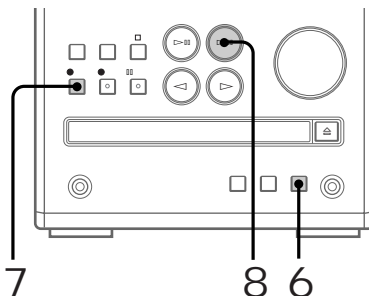
Press □.

Tips

- You can also adjust the recording level during recording.
- Once adjusted, the recording level is maintained until you adjust it again.

Monaural recording

Stereo signals such as an FM stereo broadcast can be converted to monaural format and recorded. When recording in monaural format, the MD recording time is approximately twice the normal recording (stereo recording) time (i.e., 120 minutes of monaural audio can be recorded on a 60-minute MD).



- 1 Press MD on the remote to switch the function to MD.

continued

Monaural recording (continued)

- 2 Press MENU/NO on the remote in stop mode.
- 3 Press ◀◀ or ▶▶ on the remote repeatedly until “Setup ?” appears, then press ENTER/YES on the remote.
- 4 Press ◀◀ or ▶▶ repeatedly until “Stereo Rec” (or “Mono Rec”) appears, then press ENTER/YES.
- 5 Press ◀◀ or ▶▶ repeatedly until “Mono Rec” appears, then press ENTER/YES.
“MONO” lights up.
- 6 Press FUNCTION repeatedly to select the desired sound source (e.g., TUNER) to record.
- 7 Press ● MD.
The MD deck stands by for recording.
- 8 Press MD ▷▶▶▶
Recording starts.
The sound source is heard as is (e.g., stereo sound when recording a stereo broadcast) from the speakers.

To stop recording

Press □.

To return to stereo recording

- 1 Press MENU/NO on the remote in stop mode.
- 2 Press ◀◀ or ▶▶ on the remote repeatedly until “Setup ?” appears, then press ENTER/YES on the remote.
- 3 Press ◀◀ or ▶▶ repeatedly until “Mono Rec” appears, then press ENTER/YES.
- 4 Press ◀◀ or ▶▶ repeatedly until “Stereo Rec” appears, then press ENTER/YES.
The system switches back to stereo recording, and “MONO” lights off.

Before you start editing

You can edit the recorded tracks on an MD. By using the editing functions, you can create a new sequence to the recorded MD.

Editing functions

- **Name — Labelling MDs (page 43)**
Use this function to label discs and tracks. You can use upper case, lower case, numbers, and symbols for the titles.
- **Erase — Erasing recordings (page 45)**
Use this function to erase a single track one by one, all the tracks at once, or a portion of a track.
- **Move — Changing the order of tracks (page 48)**
Use this function to change the track numbering.
- **Divide — Adding track numbers (page 49)**
Use this function to add track numbers. This lets you locate your favourite phrases quickly.
- **Combine — Combining recorded tracks (page 50)**
By using this function, two tracks are combined to a single track. You can combine the tracks which are not numerically consecutive, i.e. the track 1 and track 4, etc.
- **Undo — Cancelling the last edit (page 52)**
Use this function to cancel the last edit and restore the contents of the MD to the condition before the edit.

Before editing

You can edit an MD only when:

- The MD is recordable.
- The MD play mode is normal play.

Check the following, before editing.

1 Check the tab of the MD to be edited.



If the MD is protected, “C11” and “Protected” appear alternately and the MD cannot be edited.


Slide the tab to close the slot.

2 Press PLAY MODE repeatedly until both “PGM” and “SHUFFLE” disappear.

You can edit the MD only in normal play mode. You cannot edit the MD in Shuffle or Programme Play mode.

After editing

- ➔ Press MD  to remove the MD or press  (power) to turn off the system. “TOC” lights up, or either “TOC” or “STANDBY” starts flashing. The TOC is updated and editing is completed.

Before pulling out the mains lead MD editing is completed when the MD Table of Contents (TOC) is updated. The TOC is updated when you eject the MD or press  to turn off the system. Do not pull out the mains lead before updating the TOC (while “TOC” is lit) or while updating the TOC (while “TOC” or “STANDBY” is flashing) to ensure a complete editing.

Labelling an MD

— Name Function

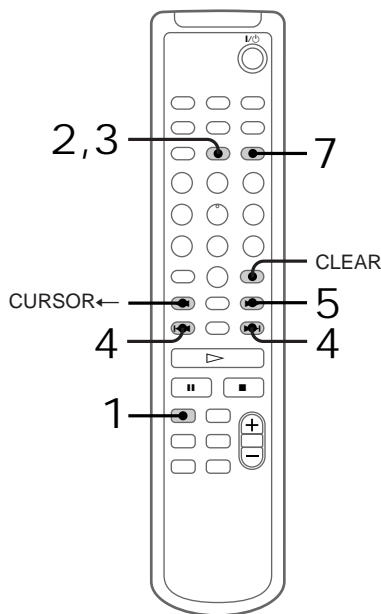
You can create titles for your recorded MDs and tracks as follows.

During recording



If “CD-TEXT” flashes in the display during recording a CD, you can record the CD disc title on the MD (see page 34). However, the CD disc title is not recorded when recording a CD on an MD and a tape at the same time.

After recording

Use Name Function on this page. You can input a total of approximately 1700 characters for the disc title and track titles on a single MD.



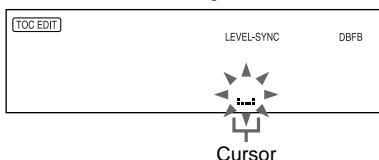
The MD Deck — Recording/Editing

- ### 1 Press MD to switch the function to MD.
- To label a track, press  or  repeatedly until the desired track number appears.

continued

2 Press NAME EDIT.

The cursor starts flashing.



3 Press CHARACTER to select the desired type of character.

Each time you press the button, the display changes as follows:

A (Upper cases) → a (Lower cases) → 0 (Number) → ! (Symbols) → A (Upper cases) → ...

4 Press ◀◀ or ▶▶ repeatedly to select the desired character.

To enter a blank space

Press CURSOR→ without pressing ◀◀ or ▶▶. You cannot enter a space as the first character.

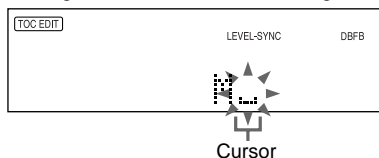
To enter a symbol

You can use the following 24 symbols.

! " # \$ % & ' () * + , - . / : ; < = > ? @ _ `

5 Press CURSOR→.

The character you selected in step 4 stops flashing and the cursor shifts to the right.



6 Repeat steps 3 to 5 to complete the entire title.

If you made a mistake

Press CURSOR← or → until the character you want to change flashes, then repeat steps 3 to 5.

To erase a character

Press CLEAR while the character is flashing. You cannot insert characters.

7 Press ENTER/YES to complete the labelling procedure.

The titles you labelled appear sequentially, and then the original display appears.

To cancel labelling

Press MENU/NO.

Notes

- You can label a track title during play. The playback repeats until you finish labelling.
- If the MD is record protected, "C11" and "Protected" appear alternately and the MD cannot be edited. Remove the MD, then slide the record protection tab to the closed position (see page 32).

Copying a disc or track title

You can copy a labelled disc or track title to use it as a title of another track or the disc title within a disc.

- Press MENU/NO in stop mode.
- Press ◀◀ or ▶▶ repeatedly until "Name ?" appears, then press ENTER/YES.
- Press ◀◀ or ▶▶ repeatedly until "Name Copy ?" appears, then press ENTER/YES.
- Press ◀◀ or ▶▶ repeatedly to select "Disc" (when copying the disc title) or the track number with the title you want to copy, then press ENTER/YES.

When "No Name" appears

The disc or track has not been labelled.

- Press ◀◀ or ▶▶ repeatedly to select the copy destination track number or "Disc" (when copying as the disc title), then press ENTER/YES.

When "Overwrite ??" appears

The copy destination already has a disc or track title. To continue and copy the title, press ENTER/YES.

To cancel copying
Press MENU/NO.

Checking the titles

To check the disc titles, press SCROLL in stop mode. To check the track title, press SCROLL during play. The title appears scrolling in the display. To stop scrolling, press SCROLL. Press the button again to resume scrolling.

Erasing the titles

- 1 Press MENU/NO in stop mode.
- 2 Press ◀◀ or ▶▶ repeatedly until “Name ?” appears, then press ENTER/YES.
- 3 Press ◀◀ or ▶▶ repeatedly until “Name Erase ?” appears, then press ENTER/YES. To erase all the titles, press ◀◀ or ▶▶ repeatedly until “Name All Ers?” appears, then press ENTER/YES.
- 4 Press ◀◀ or ▶▶ repeatedly until the desired title to erase appears, then press ENTER/YES. “Complete !!” appears and the title is erased.

To cancel erasing
Press MENU/NO.

To return to the condition before labelling or erasing
You can return to the original condition immediately after labelling or erasing a title (see page 52).

Erasing recordings
— Erase Function

The MD deck lets you erase unwanted tracks quickly and easily. You can restore the contents to the condition before erasing (unerase) by using the Undo function. Note, however, you cannot undo an edit after performing any additional edits.

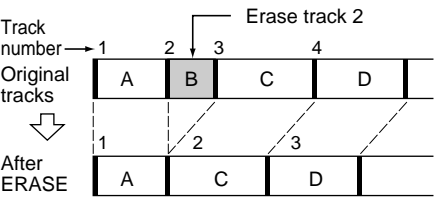
The three options for erasing recordings are:

- Erasing a single track. (Track Erase)
- Erasing all tracks. (All Erase)
- Erasing a portion of a track. (A-B Erase)

Erasing a single track
— Track Erase Function

You can erase a track simply by selecting its track number. When you erase a track, the total number of tracks on the MD decreases by one and all the tracks following the erased one are renumbered.

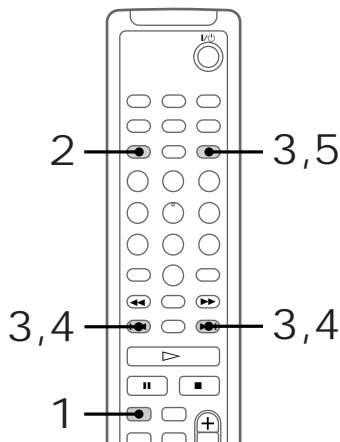
E. g.: Erasing track 2.



When erasing multiple tracks, you should proceed in order from high to low track number to prevent the renumbering of tracks that have not been erased yet.

continued

Erasing recordings (continued)



1 Press MD to switch the function to MD.

2 Press MENU/NO to display “Edit Menu”.

3 Press ◀◀ or ▶▶ repeatedly until “Track Erase ?” appears, then press ENTER/YES.

4 Press ◀◀ or ▶▶ repeatedly until the desired track number appears.



5 Press ENTER/YES.
“Complete !!” appears for a few seconds and the selected track and title are erased.

To cancel erasing
Press MENU/NO.

To return to the condition before ERASE

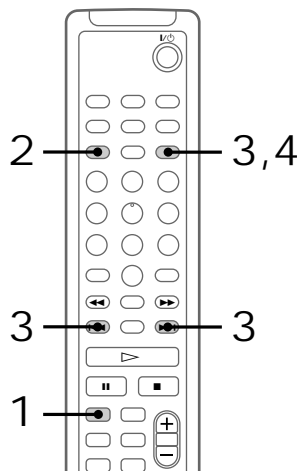
You can return to the original condition immediately after erasing the tracks (see page 52).

Note

“Erase???” appears when the track was recorded or edited on another deck and then protected. To erase the track, press ENTER/YES while “Erase???” appears.

Erasing all tracks — All Erase Function

You can erase the disc title, all recorded tracks and their titles at once.



1 Press MD to switch the function to MD.

2 Press MENU/NO to display “Edit Menu”.

3 Press ◀◀ or ▶▶ repeatedly until “All Erase ?” appears, then press ENTER/YES.

“All Erase ???” appears.

- 4 Press ENTER/YES again.
“Complete !!” appears for a few seconds and the disc title, all recorded tracks and their titles are erased.

To cancel erasing

Press MENU/NO.

To return to the condition before ERASE

You can return to the original condition immediately after erasing the tracks (see page 52).

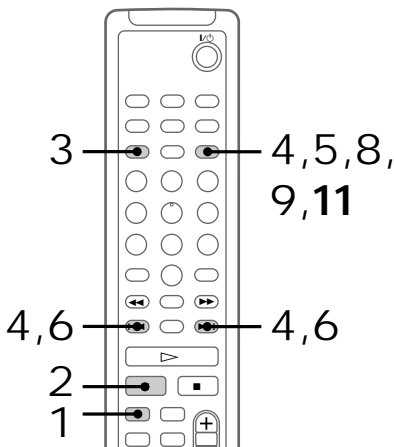
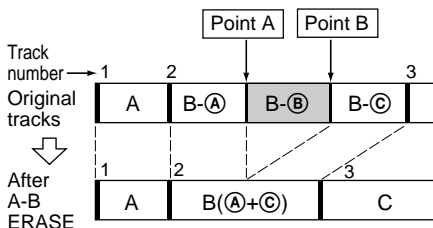
Erasing a portion of a track

— A-B Erase Function

You can specify a portion within a track and erase the portion with ease. You can shift the desired portion by frame*, minute or second intervals. This function is convenient when erasing unnecessary sections after recording a satellite broadcast or FM broadcast.

* 1 frame is 1/86 second.

E.g.: Erasing a portion of track 2.



- 1 Press MD to switch the function to MD.
- 2 While playing an MD, press **II** at the starting point of the portion to be erased (point A).
The MD pauses.
- 3 Press MENU/NO to display “Edit Menu”.
- 4 Press **II** or **III** repeatedly until “A-B Erase ?” appears, then press ENTER/YES.
- 5 Press ENTER/YES again.
“—Rehearsal—” and “Point A ok?” appear alternately while the deck plays the selected track from the beginning to point A.
- 6 While monitoring the sound, press **II** or **III** repeatedly to find the starting point of the portion to be erased (point A).
You can shift the starting point by 1/86 second (1 frame) intervals.
To shift the point by second or minute intervals, press **II** or **III** so that “s” or “m” flashes, then press **II** or **III**.

continued

- 7 Repeat step 6 until point A is played correctly.
- 8 Press ENTER/YES if point A is correct. "Point B Set" appears and playback for setting the ending point of the portion to be erased (point B) starts.
- 9 Continue playback until the deck reaches point B, then press ENTER/YES.
"A-B Ers" and "Point B ok?" appear alternately and the deck repeats a portion of the few seconds before point A and after point B successively.
- 10 Press ◀◀ or ▶▶ repeatedly to find point B.
The procedure is the same as step 6.
- 11 Press ENTER/YES if point B is correct. "Complete !!" appears for a few seconds and the portion between point A and B is erased.

To cancel erasing

Press MENU/NO.

To return to the condition before ERASE

You can return to the original condition immediately after erasing the tracks (see page 52).

Note

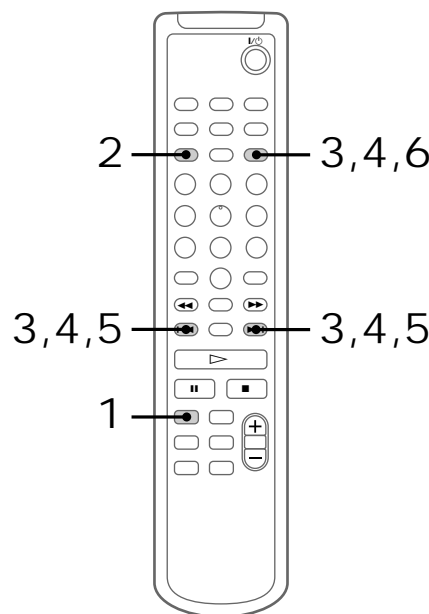
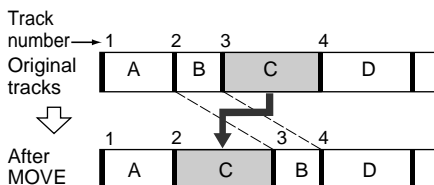
If "Impossible" appears, the specified portion cannot be erased. This happens when you have edited the same track many times. This is due to a technical limitation of the MD system and is not a mechanical error.

Moving recorded tracks

— Move Function

You can use this function to change the order of any track on the disc. When you move tracks, the tracks are automatically renumbered.

E.g.: Moving track 3 to position 2.

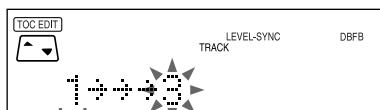


- 1 Press MD to switch the function to MD.

- 2 Press MENU/NO to display “Edit Menu”.
- 3 Press ◀◀ or ▶▶ repeatedly until “Move ?” appears, then press ENTER/YES.

- 4 Press ◀◀ or ▶▶ repeatedly until the desired track number to move appears, then press ENTER/YES.

- 5 Press ◀◀ or ▶▶ repeatedly until the new track position appears.



- 6 Press ENTER/YES.
“Complete !!” appears for a few seconds and the selected track moves to the appointed position.

To cancel moving
Press MENU/NO.

To return to the track order
before MOVE

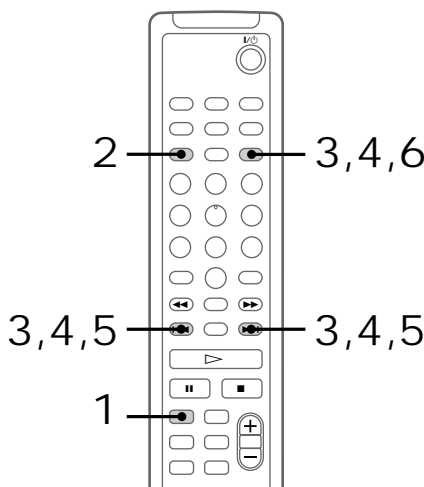
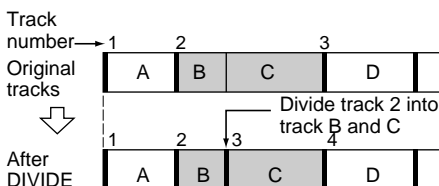
You can return to the original track order immediately after moving recorded tracks (see page 52).

Dividing recorded tracks

— Divide Function

You can use this function to mark track numbers after recording. The total number of tracks increases by one and all the tracks following the divided ones are renumbered.

E.g.: Dividing track 2 into two tracks.



- 1 Press MD to switch the function to MD.
- 2 Press MENU/NO to display “Edit Menu”.
- 3 Press ◀◀ or ▶▶ repeatedly until “Divide ?” appears, then press ENTER/YES.

continued

Dividing recorded tracks (continued)

4 Press **◀◀** or **▶▶** repeatedly until the desired track number to divide appears, then press **ENTER/YES**.

“—Rehearsal—” appears and the portion to be divided is played repeatedly.

5 While monitoring the sound, press **◀◀** or **▶▶** repeatedly to adjust the point to be divided.

You can shift the point by 1/86 second (1 frame) intervals.

To shift the point by second or minute intervals, press **◀◀** or **▶▶** so that “s” or “m” flashes, then press **◀◀** or **▶▶**.

6 Press **ENTER/YES**.

“Complete !!” appears for a few seconds and the newly created track starts playing.

To cancel dividing

Press **MENU/NO**.

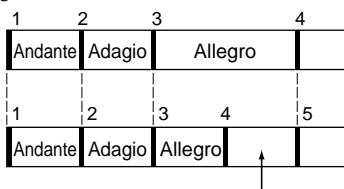
To return to the condition before DIVIDE

You can return to the original condition immediately after dividing the tracks (see page 52). You can also return to the original condition by using the Combine Function on this page.

Notes

- If you divide a labelled track (page 43) into two tracks, only the first track retains the track title.

E.g.:



The new track is not labelled

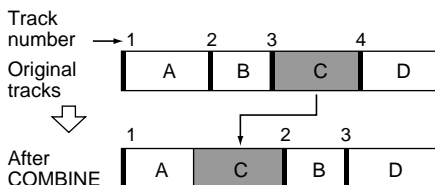
- “Impossible” appears, when you specify the division point at the beginning or end of a track. Press **◀◀** or **▶▶** to shift the position.

Combining recorded tracks — Combine Function

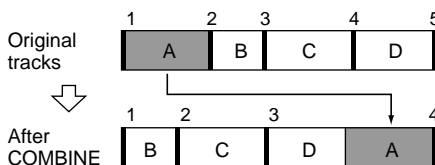
You can use this function to combine 2 tracks into a single track. The total number of tracks decreases by one and all tracks following the combined ones are renumbered.

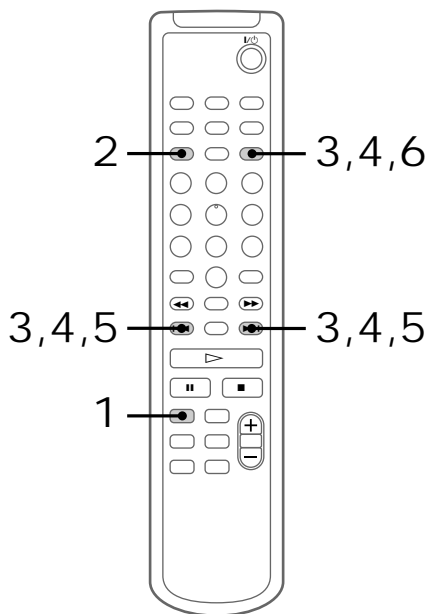
You can also use this function to erase unnecessary track numbers.

E.g.: Combining track 3 to track 1.



E.g.: Combining track 1 to track 4.





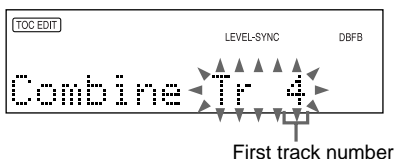
1 Press MD to switch the function to MD.

2 Press MENU/NO to display “Edit Menu”.

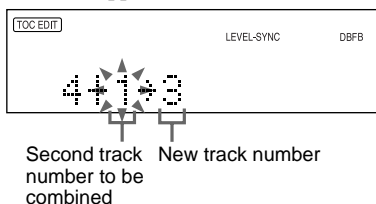
3 Press ◀◀ or ▶▶ repeatedly until “Combine ?” appears, then press ENTER/YES.

4 Press ◀◀ or ▶▶ repeatedly until the first track number of the two to be combined appears, then press ENTER/YES.

For example, to combine tracks 4 and 1, select 4.



5 Press ◀◀ or ▶▶ repeatedly until the second track number of the two to be combined appears.



6 Press ENTER/YES.

“Complete !!” appears for a few seconds and the tracks are combined. Play starts.

To cancel combining

Press MENU/NO.

To return to the condition before COMBINE

You can return to the original condition immediately after combining the tracks (see the next page). You can also return to the original condition by using the Divide function.

Notes

- If both of the combined tracks have track titles, the title of the second track is erased.
- If “Impossible” appears, the tracks cannot be combined. This happens when you have edited the same track many times. This is due to a technical limitation of the MD system and is not a mechanical error.

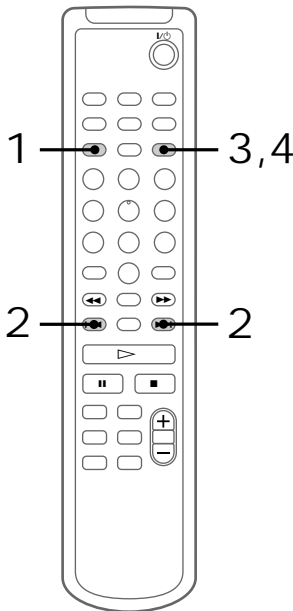
Undoing the last edit

— Undo Function

You can use this function to cancel the last edit and restore the contents of the MD to the condition before the edit.

Note, however, that you cannot undo an edit if you do any of the following after the edit:

- Do another edit.
- Press the ● MD or ENTER/START button.
- Update the TOC by turning off the system or ejecting the MD.
- Disconnect the mains lead.



1 Press MENU/NO in stop mode to display “Edit Menu”.

2 Press ◀◀ or ▶▶ repeatedly until “Undo ?” appears.
“Undo ?” does not appear, when there is no editing function that can be cancelled.

3 Press ENTER/YES.
One of the following messages appears, depending on the last edit.

| Editing done | Message |
|------------------------------|-----------------|
| Labelling a track or an MD | “Name Undo?” |
| Erasing labelled titles | |
| Erasing a single track | “Erase Undo?” |
| Erasing all tracks | |
| Erasing a portion of a track | “Move Undo?” |
| Moving a track | |
| Dividing a track | “Divide Undo?” |
| Combining tracks | “Combine Undo?” |

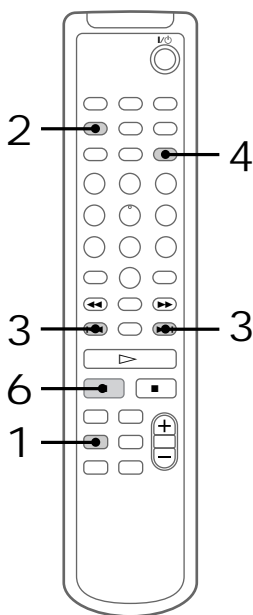
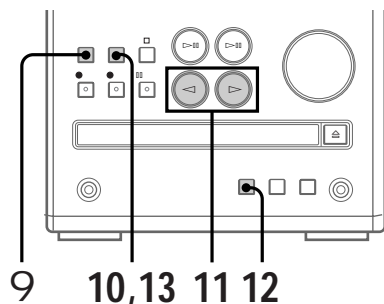
4 Press ENTER/YES again.
“Complete !!” appears for a few seconds and the contents of the MD are restored to the condition before the edit.

To cancel undoing
Press MENU/NO.

Recording your favourite CD tracks on a tape

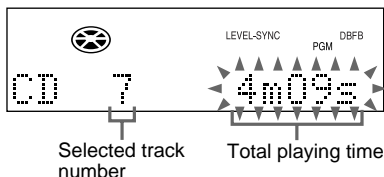
— CD-TAPE Synchro Recording

You can select your favourite CD tracks with the Programme Play feature, then record the programme on a tape using the CD Synchro Recording feature. This lets you rearrange the track order while making sure the playback time fits on each side of the tape.

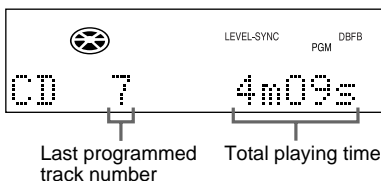


Selecting the tracks

- 1 Press CD on the remote to switch the function to CD.
- 2 Press PLAY MODE on the remote repeatedly until “PGM” appears.
- 3 Press **◀◀** or **▶▶** on the remote repeatedly until the desired track number appears.



- 4 Press ENTER/YES on the remote. The track is programmed. “Step” appears, followed by the number of the track in the programmed sequence. The number of the last programmed track appears, followed by the total playing time of the programme.



- 5 Repeat steps 3 and 4 to select the tracks to be recorded on the side where recording is to start.

continued

Recording your favourite CD tracks on a tape (continued)



-
- 6** Press **II** on the remote.
Recording pauses at the end of the side where recording starts. “P” appears and the total playing time display changes to “0m00s”.




-
- 7** Repeat steps 3 and 4 to select the tracks to be recorded on the reverse side.


Recording on a tape

-
- 8** Insert a blank tape.
-
- 9** Press **SYNCHRO REC** repeatedly until “CD-TAPE SYNC ?” appears.

-
- 10** Press **ENTER/START**.
The tape deck stands by for recording and the CD player pauses for play.

-
- 11** Press **TAPE**  to record starting from the top side or  from the bottom side.

-
- 12** Press **DIRECTION** repeatedly until  appears to record on one side or  (or ) to record on both sides.

If you select both sides recording and the tape reaches the end of the top side part-way through a track, the entire track is recorded again from the beginning of the bottom side. When you start recording from the bottom side, the recording stops at the end of the bottom side even though you select .

-
- 13** Press **ENTER/START**.
CD playing and tape recording start. The CD player and the tape deck stop automatically when the recording is completed.
-

To stop recording

Press .

If the tape becomes full during recording

The CD player and the tape deck stop automatically.

To record on an MD at the same time

Insert a recordable MD and select “DUAL SYNC ?” in step 9 of “Recording on a tape” on this page.

Tip

When you want to reduce the hiss noise in low-level, high-frequency signals, press **DOLBY NR** after step 10 so “DOLBY NR” appears in the display.

Note

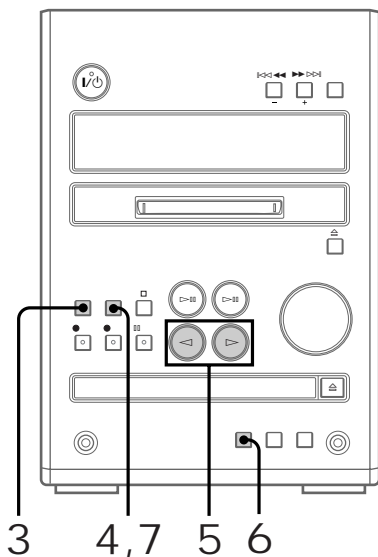
If “Cannot SYNC!” appears, a disc or a tape is not loaded or you cannot record on that tape (see page 73).

Recording an MD on a tape

You can make an analogue recording of an MD on a tape with the tracks in the same sequence as the original MD.

You can also record a programme of favourite tracks.

Recording tracks in the same sequence as the original MD



- 1 Insert a blank tape.
- 2 Insert an MD.
- 3 Press SYNCHRO REC repeatedly until "MD-TAPE SYNC ?" appears.
- 4 Press ENTER/START.
The tape deck stands by for recording and the MD deck pauses for play.

- 5 Press TAPE to record starting from the top side or from the bottom side.

- 6 Press DIRECTION repeatedly until appears to record on one side or (or) to record on both sides.

If you select both sides recording and the tape reaches the end of the top side part-way through a track, the entire track is recorded again from the beginning of the bottom side. When you start recording from the bottom side, the recording stops at the end of the bottom side even though you select .

- 7 Press ENTER/START.
MD playing and tape recording start. The MD deck and the tape deck stop automatically when the recording is completed.

To stop recording

Press .

If the tape becomes full during recording

The MD deck and the tape deck stop automatically.

Tip

When you want to reduce the hiss noise in low-level, high-frequency signals, press DOLBY NR after step 4 so "DOLBY NR" appears in the display.

Note

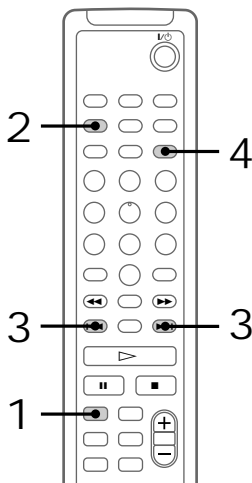
If "Cannot SYNC!" appears, a disc or a tape is not loaded or you cannot record on that tape (see pages 72 and 73).

continued

Recording an MD on a tape (continued)

Recording your favourite MD tracks — MD-TAPE Synchro Recording

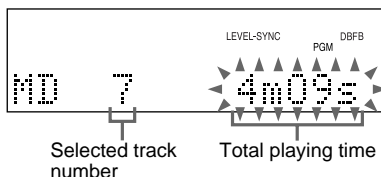
You can select your favourite MD tracks with the Programme Play feature, then record the programme on a tape using the MD Synchro Recording feature.



1 Press MD to switch the function to MD.

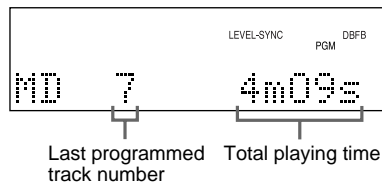
2 Press PLAY MODE repeatedly until “PGM” appears in stop mode.

3 Press **FASTER** or **SLOWER** repeatedly until the desired track appears in the display.



4 Press ENTER/YES.

The track is programmed. “Step” appears, followed by the number of the track in the programmed sequence. The number of the last programmed track appears, followed by the total playing time of the programme.



5 To programme additional tracks, repeat steps 3 and 4.

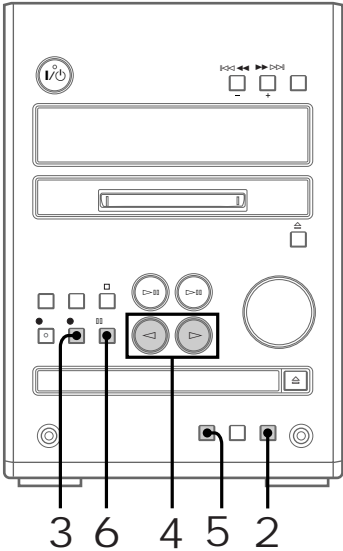
6 Insert a blank tape.

7 Perform steps 3 to 7 of “Recording tracks in the same sequence as the original MD” (see page 55).

Recording on a tape manually — Manual Recording

With manual recording, you can record just the portions you like from a CD or an MD on a tape. You can also record a radio programme.

The recording level is automatically adjusted.



- 1 Insert a blank tape.
- 2 Press **FUNCTION** repeatedly to select the desired source (e. g., **TUNER**) to record.
 - **CD**: Recording from the CD
 - **MD**: Recording from the MD
 - **TUNER**: Recording from the radio
- 3 Press **● TAPE**.
The tape deck stands by for recording.

- 4 Press **TAPE** to record starting from the top side or from the bottom side.

- 5 Press **DIRECTION** repeatedly until appears to record on one side or (or) to record on both sides.
When you start recording from the bottom side, the recording stops at the end of the bottom side even though you select .

- 6 Press **TAPE**.
Recording starts.

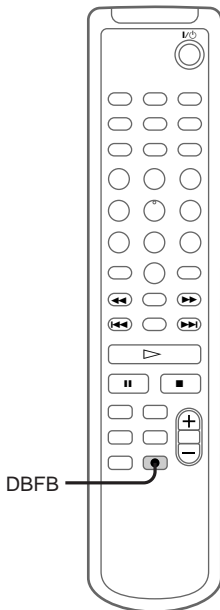
- 7 Start playing the desired source to record.

| To | Press |
|----------------|---------------|
| Stop recording | . |
| Pause | TAPE . |

Tip
When you want to reduce the hiss noise in low-level, high-frequency signals, press **DOLBY NR** after step 3 so “DOLBY NR” appears in the display.

Reinforcing the bass sound — DBFB

You can listen to music with stronger bass tones or a more powerful sound.



- ➔ Press DBFB*.
“DBFB” appears in the display.
Press again to cancel DBFB.

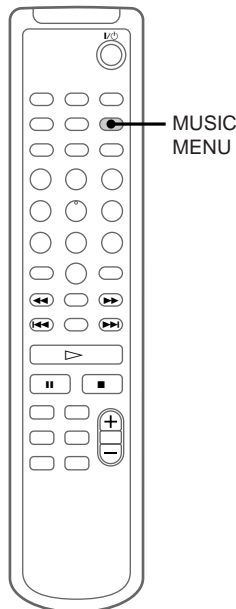
* DBFB: Dynamic Bass Feedback

Tip

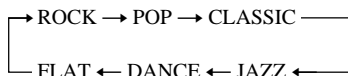
DBFB is factory set to on.

Selecting the Preset Equalizer menu

The Preset Equalizer enables you to select the sound characteristic among 5 sound effects according to the type of music you are listening to.



- ➔ Press MUSIC MENU repeatedly.
Each time you press the button, the display changes as follows:



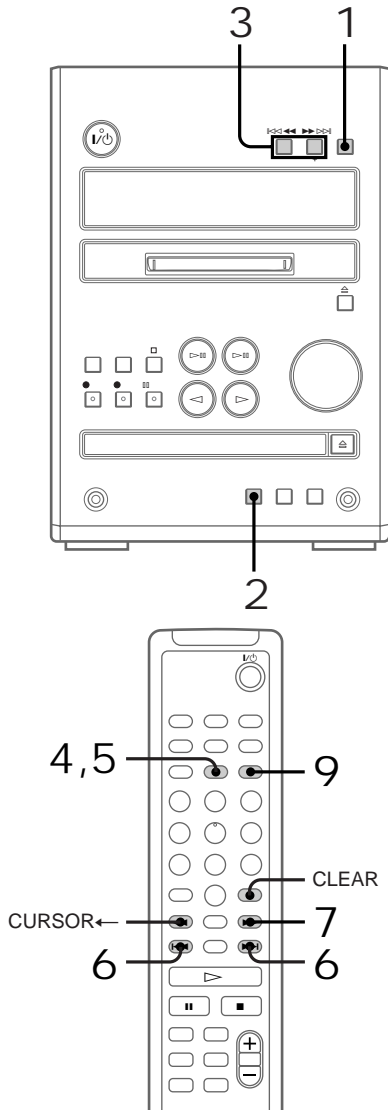
To cancel the Preset Equalizer
Press MUSIC MENU repeatedly until “FLAT” appears.

Tips

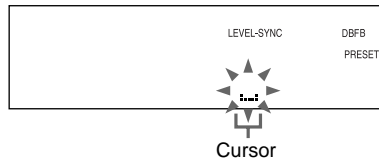
- The Preset Equalizer menu is factory set to “ROCK.”
- The Preset Equalizer effect is not recorded on an MD or a tape.

Labelling the preset stations — Station Name

You can label each preset station with up to 12 characters (Station Name). The Station Name appears when you tune in the station.



- 1 Press TUNER/BAND to select “FM” or “AM”.
- 2 Press TUNING MODE repeatedly until “PRESET” appears.
- 3 Press TUNING + or – repeatedly until the desired preset station to label appears.
- 4 Press NAME EDIT on the remote. The cursor starts flashing.



- 5 Press CHARACTER on the remote repeatedly to select the desired type of character.
Each time you press the button, the display changes as follow:
 □ (Blank space) → A (Upper cases) → a (Lower cases) → 0 (Numbers) → ! (Symbols) → □ (Blank space) → ...
- 6 Press ◀◀ or ▶▶ on the remote repeatedly to select the desired character.

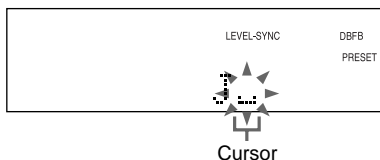
To enter a blank space
Press CURSOR→ without pressing ◀◀ or ▶▶.

To enter a symbol
You can use the following 24 symbols.
! " # \$ % & ' () * + , - . / : ; < = > ? @ _ `

continued

Labelling the preset stations (continued)

- 7 Press **CURSOR→** on the remote.
The character you selected in step 6 stops flashing and the cursor shifts to the right.



- 8 Repeat steps 5 to 7 to complete the entire title.

If you made a mistake

Press **CURSOR←** or **→** until the character you want to change flashes, then repeat steps 5 to 7.

To erase a character

Press **CLEAR** on the remote while the character is flashing. You cannot insert characters.

- 9 Press **ENTER/YES** on the remote to complete the labelling procedure.

To cancel labelling

Press **MENU/NO** on the remote.

To check the preset number and frequency

The station name appears when you tuned the labelled station.

To check the preset number and frequency, press **DISPLAY** on the remote. The preset number and frequency are displayed for 4 seconds and it returns to the station name display.

To erase the name

- 1 Repeat steps 1 to 4.
- 2 Press **CLEAR** on the remote repeatedly to erase the name.
- 3 Press **ENTER/YES** on the remote.

Using the Radio Data System (RDS)

(European model only)

What is the Radio Data System?

Radio Data System (RDS) is a broadcasting service that allows radio stations to send additional information along with the regular programme signal. RDS is available only on FM stations*.

Note

RDS may not work properly if the station you are tuned in is not transmitting the RDS signal properly or if the signal is weak.

* Not all FM stations provide RDS service, nor do they provide the same types of services. If you are not familiar with the RDS system, check with your local radio stations for details on RDS services in your area.

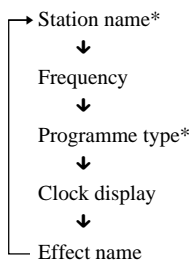
Receiving RDS broadcasts

- ➔ Simply select a station from the FM band.

When you tune in a station that provides RDS services, the station name appears in the display.

To check the RDS information

Each time you press **DISPLAY**, the display changes as follows:

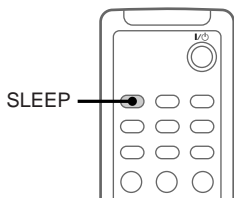


* If the RDS broadcast is not received, the station name and programme type may not appear in the display.

Falling asleep to music

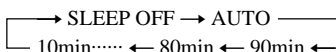
— Sleep Timer

You can set the system to turn off after a certain time, so that you can fall asleep to music. You can preset the time to turn off in 10 minutes increments.



➔ Press SLEEP.

Each time you press the button, the minute display (the turn-off time) changes as follows:



To check the remaining time

Press SLEEP once. However, the remaining time is not displayed when “AUTO” is set.

To change the time to turn off

Select the time you want by pressing SLEEP.

To cancel the Sleep Timer function

Press SLEEP repeatedly until “SLEEP OFF” appears.

Tip

You can use the Sleep Timer, even if you have not set the clock.

When you select “AUTO”

The system automatically turns off after the current CD, MD or tape finishes playing (up to 100 minutes).

When the function is TUNER, the system turns off in 100 minutes.

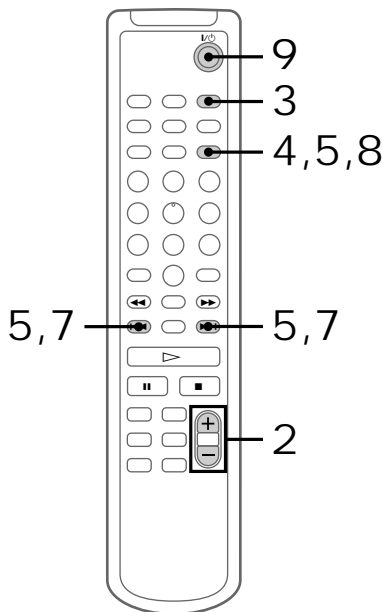
Note

Do not set to “AUTO” during Synchro Recording on an MD or a tape.

Waking up to music

— Daily Timer

You can wake up to music at a preset time. Make sure you have set the clock (see page 6).



1 Prepare the sound source you want to play.

- CD: Place a CD. To start from a specific track, make a programme (see page 23).
- MD: Insert an MD. To start from a specific track, make a programme (see page 29).
- Tape: Insert a tape.
- Radio: Tune in a station (see page 7).

2 Press VOLUME +/- to adjust the volume.

3 Press CLOCK/TIMER SET. “SET DAILY” appears.

continued

Waking up to music (continued)

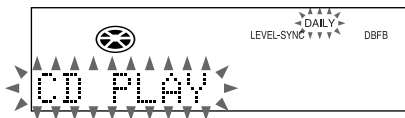
- 4 Press ENTER/YES.
“ON” lights up, and the hour indication flashes.

- 5 Set the time to start play.
Press ◀◀ or ▶▶ repeatedly to set the hour, then press ENTER/YES.
The minute indication flashes.

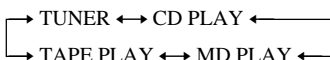


Press ◀◀ or ▶▶ repeatedly to set the minute, then press ENTER/YES.
The hour indication flashes again.

- 6 Set the time to stop play following the above procedure.



- 7 Press ◀◀ or ▶▶ repeatedly to select the desired sound source.
The indication changes as follows:



- 8 Press ENTER/YES.
The start time, the stop time, and the sound source appear in turn, before the original display returns.

- 9 Press I/⏻ to turn off the system.

To change the setting
Start over from step 1.

To check the setting / activate the timer
Press CLOCK/TIMER SELECT, then press ◀◀ or ▶▶ repeatedly until “SET DAILY” appears. Then, press ENTER/YES.

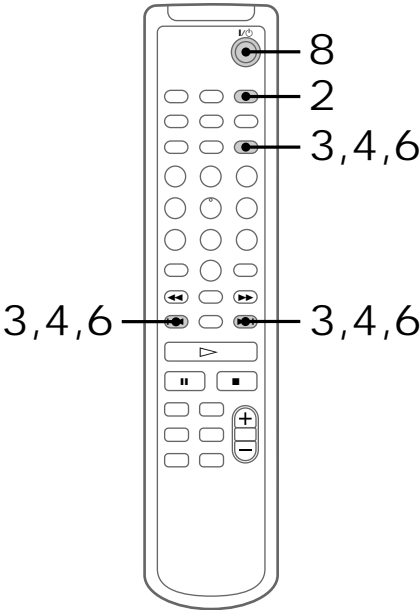
To cancel the timer
Press CLOCK/TIMER SELECT, then press ◀◀ or ▶▶ repeatedly until “TIMER OFF” appears. Then press ENTER/YES.

Notes

- You cannot activate Daily Timer and recording timer at the same time.
- Do not operate the system from the time the system turns on until the play starts (about 30 seconds before the preset time).
- If the system is on at the preset time, the set sound source starts playing.
- You cannot use the optional components connected to the LINE IN jack as the sound source for Daily Timer.

Timer recording radio programmes

To timer record, you must first preset the radio station (see page 7) and set the clock (see page 6).



- 1 Tune in the preset radio station (see page 18).
- 2 Press CLOCK/TIMER SET.
“SET DAILY” appears.
- 3 Press **◀▶** or **▶▶** to select either “MD REC” or “TAPE REC”, then press ENTER/YES.
“ON” lights up and the hour indication flashes.

- 4 Set the time to start recording.
Press **◀▶** or **▶▶** repeatedly to set the hour, then press ENTER/YES.
The minute indication flashes.



Press **◀▶** or **▶▶** repeatedly to set the minute, then press ENTER/YES.

- 5 Set the time to stop recording following the procedure in step 4.
- 6 When you record onto an MD, select STEREO or MONO by pressing **◀▶** or **▶▶**, then press ENTER/YES.
The timer recording settings appear, then the original display returns.
- 7 Insert a recordable MD or tape.
If you use a partially recorded MD, recording starts after the recorded tracks.
If you use a tape, recording starts from the top side. Insert a tape with the side you want to record on facing up.
- 8 Press **I/⏻** to turn off the system.

continued

Timer recording radio programmes (continued)

To change the setting

Start over from step 1.

To check the setting / To use the timer

- 1 Press CLOCK/TIMER SELECT.
- 2 Press ◀◀ or ▶▶ to select either “MD REC” or “TAPE REC”, then press ENTER/YES.

To cancel the timer

Press CLOCK/TIMER SELECT and press ◀◀ or ▶▶ repeatedly until “TIMER OFF” appears, then press ENTER/YES.

Tip

When you record from the radio, the station name (see page 59, or frequency when the station is not labelled), the start time and the stop time are automatically recorded on the MD.

Notes

- The Smart Space and Level Synchro Recording functions do not operate.
- You cannot activate Daily Timer and the recording timer at the same time.
- Do not operate the system from the time the system turns on until the recording starts (about 30 seconds before the preset time).
- When you record on a brand new MD, the first 15 seconds are not recorded.
- If the system is on about 30 seconds before the preset time, the timer-recording will not be activated.
- The volume is reduced to minimum during recording.
- When the timer is set, the Power Saving Mode does not function.

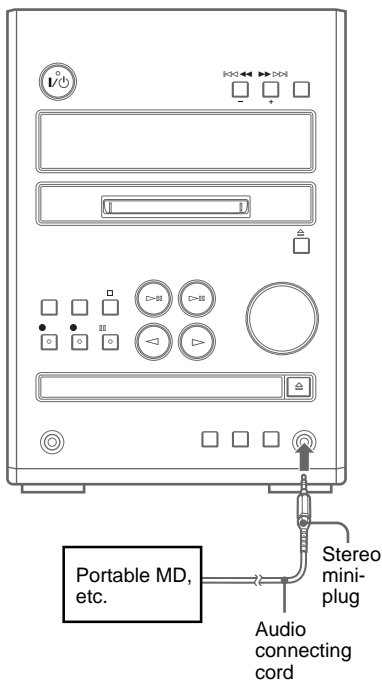
Connecting optional components

Connecting optional A/V components

To enhance your system, you can connect optional components. Refer to the operating instructions of each component.

Connecting a portable MD, etc.

Connect a portable MD, etc., to the LINE IN jack on the front panel of the unit, using an audio connecting cord (not supplied).

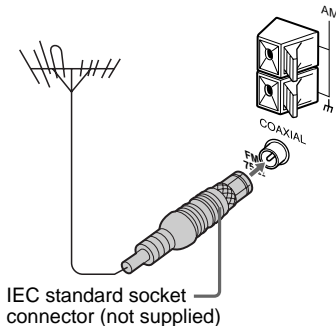


Connecting external aerials

Connect an external aerial to improve reception.

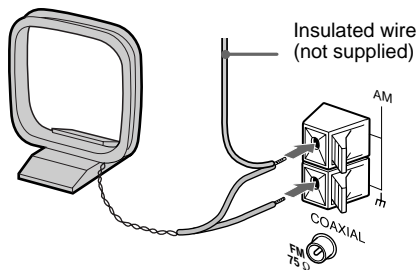
FM aerial

Connect an commercially available FM external aerial, or you can use a TV aerial instead.



AM aerial

Connect a 6- to 15- meter insulated wire to the AM aerial terminal. Leave the supplied AM loop aerial connected.



Important

If you connect an external aerial, connect a ground wire to the h terminal. To prevent a gas explosion, do not connect the ground wire to a gas pipe.

Precautions

On safety

- The unit is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the unit itself has been turned off.
- Unplug the system from the mains if it is not to be used for an extended period of time.
To disconnect the mains lead, pull it out by the plug. Never pull the cord itself.
- Should any solid object or liquid fall into the system, unplug the system and have it checked by qualified personnel before operating it any further.
- AC power cord (mains lead) must be changed only at the qualified service shop.
- When you connect the mains lead to the mains, even if the power is off, the system begins charging for remote and timer functions. Therefore the surface of this unit become warm, this is normal.

On placement

- Make sure the system fan is on during use.
Place the system in a location with adequate air circulation, and do not place anything on top of the system.
- Place the system in a location with adequate ventilation to prevent heat build up.
- Do not place the system in an inclined position.
- Do not place the system in locations where it is;
 - Extremely hot or cold
 - Dusty or dirty
 - Very humid
 - Subject to vibrations
 - Subject to direct sunlight.

On installing

When you move the system, remove the CD or MD.

On operation

- If the system is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lens inside the CD player or the MD deck. Should this occur, the system will not operate properly. Remove the CD or MD and leave the system turned on for about an hour until the moisture evaporates.
- When you move the system, take out any discs.

If you have any questions or problems concerning your system, please consult your nearest Sony dealer.

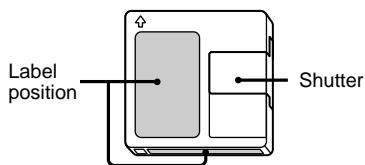
On the speaker system

This speaker system is not magnetically shielded and the picture on TV sets may become magnetically distorted. In such a case, turn off the power of the TV set once, and after 15 to 30 minutes turn it on again.

If there seems to be no improvement, locate the speaker system further away from the TV set. Also, be sure not to place objects in which magnets are attached or used near the TV set, such as audio racks, TV stands, and toys. These may cause magnetic distortion to the picture due to their interaction with the system.

Notes on MDs

- If you try to force the shutter open, the disc may be damaged. If the shutter opens, close it immediately without touching the disc inside.
- Affix the label supplied with the disc only to the specified label indentation. Do not affix the label around the shutter or in other locations. Note that the shape of the indentation depends on the disc.



- Wipe the disc cartridge with a dry cloth to remove dirt.
- Do not expose the MD to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.

Notes on CDs

- Before playing, clean the CD with a cleaning cloth. Wipe the CD from the centre out.
- Do not use a CD with tape, seals, or paste on it as this may damage the player.
- Do not use solvents such as benzine, thinner, commercially available cleaners, or antistatic spray intended for vinyl LPs.
- Do not expose the CD to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.

Cleaning the cabinet

Use a soft cloth slightly moistened with mild detergent solution.

Before placing a cassette in the tape deck

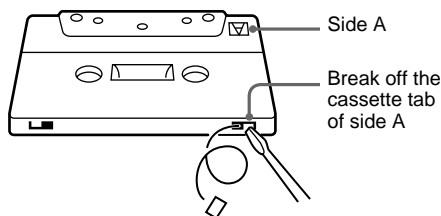
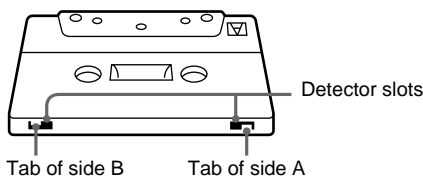
Take up any slack in the tape. Otherwise, the tape may get entangled in the parts of the tape deck and become damaged.

When using a tape longer than 90 minutes

The tape is very elastic. Do not change the tape operations such as play, stop, and fast-winding frequently. The tape may get entangled in the tape deck.

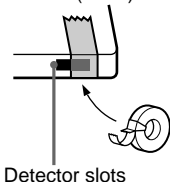
To save a tape permanently

To prevent a tape from being accidentally recorded over, break off the cassette tab from side A or B as illustrated.

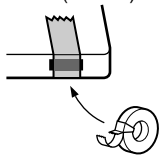


If you later want to reuse the tape for recording, cover the broken tab with adhesive tape. However, be careful not to cover the detector slots which allow the tape deck to automatically detect the type of tape.

TYPE II (CrO₂)



TYPE I (normal)



Cleaning the tape heads

Clean the tape heads after every 10 hours of use.

When the tape heads become dirty

- the sound is distorted
- there is a decrease in sound level
- the sound drops out
- the tape does not erase completely
- the tape does not record.

Be sure to clean the tape heads before you start an important recording or after playing an old tape.

Use a separately sold dry-type or wet-type cleaning cassette. For details, refer to the instructions of the cleaning cassette.

Demagnetising the tape heads

Demagnetise the tape heads and the metal parts that has contact with the tape after every 20 to 30 hours of use with a separately sold demagnetising cassette.

For details, refer to the instructions of the demagnetising cassette.

System limitations of MDs

The recording system in your MD deck has the limitations described below.

Note, however, that these limitations are due to the inherent nature of the MD recording system itself, not to mechanical causes.

“Disc Full!!!” appears before the MD has reached the maximum recording time

When 255 tracks have been recorded on the MD, “Disc Full!!!” appears regardless of the total recorded time. More than 255 tracks cannot be recorded on the MD. To continue recording, erase unnecessary tracks or use another recordable MD.

“Disc Full!!!” appears before the maximum number of tracks (255) is reached

Fluctuations in emphasis within tracks are sometimes interpreted as track intervals, increasing the track count and causing “Disc Full!!!” to appear.

The remaining recording time does not increase even after erasing numerous short tracks

Tracks shorter than 12 seconds are not counted, so erasing them may not increase the recording time.

Some tracks cannot be combined with others

Track combination may become impossible when tracks are shorter than 8 seconds. Track combination of edited tracks may also become impossible.

The total recorded time and the remaining time on the MD do not add up to the maximum recording time

Recording is done in minimum units of 2 seconds each, no matter how short the material. The recorded contents may be shorter than the maximum recording capacity. Disc space may also be reduced by scratches.

The sound may drop-out while searching the edited tracks

Tracks created through editing may exhibit sound dropout during searching because high-speed playback requires time to search for the position on the disc when the tracks are not in order.

Track numbers cannot be marked

When “LEVEL-SYNC” (page 37) lights up in the display window during analogue recording, the track numbers may not be marked at the beginning of the track:

- if the input signal is below a certain fixed level for less than two seconds between tracks.
- if the input signal is below a certain fixed level for more than two seconds in the middle of the track.

Guide to the Serial Copy Management System

Digital audio components, such as CDs, MDs, and DATs let you copy music easily with high quality by processing music as a digital signal.

To protect the copyrighted music programmes, this system uses the Serial Copy Management System that allows you to make only a single copy of a digitally recorded source through digital-to-digital connections.

You can make only a first generation copy* through a digital-to-digital connection.

For example:

- 1 You can make a copy of a commercially available digital sound programme (for example, a CD or MD), but you cannot make a second copy from the first-generation copy.
- 2 You can make a copy of a digital signal from a digitally recorded analogue sound programme (for example, an analogue record or a music cassette tape) or from a digital satellite broadcast programme, but you cannot make a second copy.

* A first-generation copy means a digital recording of a digital signal made on digital audio equipment. For example, if you record from this system's CD player to the MD deck, you make a first-generation copy.

Troubleshooting

If you have any problem using this system, use the following checklist.

First, check that the mains lead is connected firmly and that the speakers are connected correctly and firmly.

Should any problem persist, consult your nearest Sony dealer.

General

There is no sound.

- Turn VOLUME clockwise.
- Make sure the headphones are not connected.
- Check the speaker connections (see page 4).

Sound comes from one channel, or unbalanced left and right volume.

- Connect the speaker cords properly (see page 4).
- Place the speakers as symmetrically as possible.
- Connect only one of the supplied speakers to each set of speaker terminals.
- Connect the supplied speakers.

There is severe hum or noise.

- Move the system away from the source of noise.
- Connect the system to a different mains outlet.
- Install a noise filter (commercially available) to the mains line.

“0:00” (for the European model) or “12:00 AM” (for other models) flashes in the display.

- Set the clock again (see page 6).

The timer cannot be set.

- Set the clock again (see page 6).

The timer does not function.

- Press CLOCK/TIMER SELECT to set the timer and light up “DAILY” or “REC” in the display (see pages 62 and 64).
- Check the set contents and set the correct time (see pages 61 – 64).
- Cancel the Sleep Timer function (see page 61).

The remote does not function.


- Remove the obstacle.
- Move the remote closer to the system.
- Point the remote at the system’s sensor.
- Replace the batteries (R6/size AA).
- Locate the system away from the fluorescent light.

“PROTECT” and “PUSH POWER” appear alternately.

- Press I/⏻ (power) to turn off the system. Turn on the system again after a while.

CD Player



The CD tray does not close.

- Place the CD correctly in the centre of the tray.
- Always close the tray by pressing CD . Trying to press the tray closed with your fingers may cause problems with the CD player.

The CD does not eject.

- Consult your nearest Sony dealer.

Play does not start.

- Open the CD tray and check whether a CD is loaded.
- Wipe the CD clean (see page 66).
- Replace the CD.
- Place the CD correctly in the centre of the tray.
- Place the CD in the tray with the label side up.
- Remove the CD and wipe away the moisture on the CD, then leave the system turned on for a few hours until the moisture evaporates.
- Press CD   to start play.

The sound skips.

- Wipe the CD clean (see page 66).
- Replace the CD.
- Try moving the system to a place without vibration (e.g., on top of a stable stand).
- Try moving the speakers away from the system, or placing them on separate stands. When you listen to a track with bass sounds at high volume, the speaker vibration may cause the sound to skip.

continued

Troubleshooting (continued)

Play does not start from the first track.

- Press PLAY MODE repeatedly until “PGM” or “SHUFFLE” disappears to return to normal play.

“—OVER—” appears.

- Keep pressing **⏮** to return to the desired playing position.
-

MD Deck

An MD cannot be inserted.

- Insert the MD with the arrow side up and the arrow pointing toward the deck.
-

The controls do not work.

- Replace the MD with a new one.
 - Retry the operations after “TOC” or “STANDBY” turns off.
-

Play does not start.

- Replace the MD.
 - Insert the MD and leave the system turned on for a few hours until the moisture evaporates.
 - Press MD **▶** to start play.
-

The sound skips.

- Replace the MD.
 - Try moving the system to a place without vibration (e.g., on top of a stable stand).
 - Try moving the speakers away from the system, or placing them on separate stands.
When you listen to a track with bass sounds at high volume, the speaker vibration may cause the sound to skip.
 - Insert the disc and wait for 10 to 20 minutes with the system turned on.
-

Play does not start from the first track.

- Press PLAY MODE repeatedly until “PGM” or “SHUFFLE” disappears to return to normal play.
-

“—OVER—” appears.

- Keep pressing **⏮** to return to the desired playing position.
-

“OVER” lights red during recording.

- Adjust the recording level lower (see page 40).

Recording or editing was done, but the TOC is not updated.

- MD recording and editing contents are recorded to the MD when the MD is removed, so make sure you remove the MD after recording or editing (see pages 32 and 43).
-

Recording is not possible.

- Remove the MD and slide the tab to close the slot (see page 32).
 - Connect the optional A/V component properly (see page 65).
 - Switch to another sound source.
 - Replace the MD with a recordable MD, or use the Erase Function to erase unnecessary tracks (see pages 45 – 48).
 - Start recording over from the beginning.
-

The sound from an MD you recorded is too low (or too high).

- Readjust the recording level (see page 40).
-

Tape Deck

The tape does not record.

- No cassette is inserted. Insert a cassette.
 - The tab has been removed from the cassette. Cover the broken tab with adhesive tape (see page 67).
 - The tape has wound to the end.
-

The tape does not record or play, or there is a decrease in sound level.

- The heads are dirty. Clean them.
 - The record/playback heads are magnetised. Demagnetise them (see page 67).
-

The tape does not erase completely.

- The record/playback heads are magnetised. Demagnetise them (see page 67).
-

There is excessive wow or flutter, or the sound drops out.

- The capstans in the tape deck are dirty. Clean them using a cleaning cassette.
-

Noise increases or the high frequencies are erased.

- The record/playback heads are magnetised. Demagnetise them (see page 67).
-

Optional components

There is no sound.

- Refer to General item “There is no sound.” on page 69 and check the condition of the system.
- Connect the component properly (see page 65) while checking:
 - if the cords are connected properly.
 - if the cord plugs are firmly inserted all the way.
- Turn on the connected component.
- Refer to the operating instructions included with the connected component and start playing.

The sound is distorted.

- Adjust the recording level (see page 40).

Tuner

Severe hum or noise/stations cannot be received.

- Set the proper band and frequency (see page 7).
- Connect the aerial properly (see page 5).
- Find a place and an orientation that provide good reception, then set up the aerial again. If you cannot obtain good reception, we recommend you connect a commercially available external aerial.
- The supplied FM lead aerial receives signals along its entire length, so make sure you extend it fully.
- Locate the aerials as far away from the speaker cords as possible.
- Consult your nearest Sony dealer if the supplied AM aerial has come off the plastic stand.
- Try turning off surrounding electrical equipments.

A stereo FM program cannot be received in stereo.

- Press STEREO/MONO until “STEREO” appears in the display.
- See “Severe hum or noise/stations cannot be received.”, and check the aerial condition.

Cyclical static noise is heard while recording on an MD.

- Adjust the aerial orientation and position until the noise stops.
-

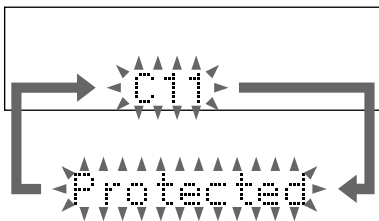
If the system still does not operate properly after performing the above measures, reset the system as follows:

Press the RESET switch on the rear panel using a ball point pen etc.

The system is reset to the factory settings. All the settings you made such as the preset stations, clock, timer and CD disc titles are cleared and must be set again.

Self-diagnosis display

This system has a Self-diagnosis display function to let you know if there is a system malfunction. The display shows a code made up of three letters and a message alternately to show you the problem. To solve the problem refer to the following list. If any problem persists, consult your nearest Sony dealer.



C11/Protected

The MD is protected against erasure.

- ➔ Remove the MD and slide the tab to close the slot (page 32).

C12/CannotCopy

You tried to record a CD or MD with a format that the system does not support, such as a CD-ROM.

- ➔ Remove the disc and turn off the system once, then turn it on again.

C13/RECError

Recording could not be performed properly.

- ➔ Move the system to a stable place, and start recording over from the beginning.

The MD is dirty or scratched, or the MD does not meet the standards.

- ➔ Replace the MD and start recording over from the beginning.

C13/ReadError

The MD deck cannot read the disc information properly.

- ➔ Remove the MD once, then insert it again.

C14/TocError

The MD deck cannot read the disc information properly.

- ➔ Replace the MD.
- ➔ Erase all the recorded contents of the MD using the All Erase function on page 46.

C41/CannotCopy

The sound source is a copy of a commercially available music software, or you tried to record a CD-R (Recordable CD).

- ➔ The Serial Copy Management System prevents making a digital copy (see page 68). You cannot record a CD-R.
-

Messages

One of the following messages may appear or flash in the display during operation.

MD

AutoCut

The MD deck is pausing the recording because silence continued for 30 seconds or more during digital recording.

BlankDisc

The inserted recordable MD is new, or all tracks on the MD have been erased.

CannotEdit

- A pre-mastered MD is in the deck.
- You tried to edit in Programme or Shuffle Play mode.

CannotREC

- A pre-mastered MD is in the deck.
- The function is switched to MD.

CannotSYNC!

- There is no disc in the MD deck, or the MD is protected against erasure.
- There is no time remaining on the MD.

Complete!!

The editing operation of MDs is completed.

DiscFull!!!

There is no time remaining on the MD.

Eject

The MD deck is ejecting the MD.

Impossible

- You tried to make an impossible editing operation.
- You cannot combine the tracks due to the system limitations of MDs.

| | |
|--------------------------|---|
| NameFull | There is no more space to store track or disc titles. |
| NoDisc | There is no disc in the MD deck. |
| NoName | You tried to show the title of a non-labelled disc or track. |
| —OVER— | You have reached the end of the MD while keeping pressing ►►▷▷⏏ during playing pause. |
| PushSTOP! | You pressed PLAY MODE during play. |
| —Rehearsal— | The MD is playing the specified dividing point for confirmation during the Divide function. |
| SmartSpace | The signal was input again after silence continued for 3 or more but less than 30 seconds during digital recording. |
| Standby(flashing) | The timer settings have disappeared over time and are not available for saving to disc, or Program Play could not be activated since the program has disappeared over time. |
| TextProtect | There is CD TEXT information which cannot be recorded on the MD. |
| TOCReading | The MD deck is reading the TOC information of the MD. |
| TOCWriting | The MD deck is writing the information of recorded or edited contents. |
| TrackEnd | You have reached the end of the track while adjusting the dividing point during the Divide function. |

| |
|---|
| TUNER |
| CannotEdit |
| You tried to label or erase a non-preset station. |
| CD |
| CannotEdit |
| You tried to label a CD TEXT disc. |
| NameFull |
| There are already 50 disc titles stored in the system. |
| —OVER— |
| You have reached the end of the CD while keeping pressing ►►▷▷⏏ during play or pause. |
| TAPE |
| CannotSYNC! |
| There is no tape in the tape deck, or the tab has been removed from the cassette. |
| NoTAB |
| You cannot record the tape because the tab has been removed from the cassette. |
| Notape |
| There is no tape in the tape deck. |

Specifications

Main Unit (HCD-J3MD)

Amplifier section

European model:

DIN power output (Rated): 20 + 20 watts (6 ohms at 1 kHz, DIN, 230 V)

Continuous RMS power output (Reference):
25 + 25 watts (6 ohms at 1 kHz, 10% THD, 230 V)

Music power output (Reference):
45 + 45 watts

Other models:

DIN power output (Rated): 20 + 20 watts (6 ohms at 1 kHz, DIN, 220 V)

Continuous RMS power output (Reference):
25 + 25 watts (6 ohms at 1 kHz, 10% THD, 220 V)

Peak Music Power Output: 400 watts

Inputs

LINE IN (stereo minijack):
voltage 250 mV, impedance
47 kilohms

Outputs

PHONES (stereo minijack):
accepts headphones of 8 ohms or more.

SPEAKER:
accepts impedance of 6 to 16 ohms.

CD player section

| | |
|--------------------|--|
| System | Compact disc and digital audio system |
| Laser | Semiconductor laser ($\lambda=780$ nm) Emission duration: continuous |
| Laser output | Max. 44.6 μ W* * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture. |
| Frequency response | 2 Hz – 20 kHz |

MD deck section

| | |
|--------------------|--|
| System | MiniDisc digital audio system |
| Laser | Semiconductor laser ($\lambda=780$ nm) Emission duration: continuous |
| Laser output | Max. 44.6 μ W* * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture. |
| Sampling frequency | 44.1 kHz |
| Frequency response | 5 Hz – 20 kHz |

Tape deck section

| | |
|--------------------|---|
| Recording system | 4-track 2-channel stereo |
| Frequency response | (DOLBY NR OFF) 40 – 13,000 Hz (± 3 dB), using Sony TYPE I cassettes 40 – 14,000 Hz (± 3 dB), using Sony TYPE II cassettes |
| Wow and flutter | $\pm 0.13\%$ W. Peak (IEC) 0.07% W. RMS (NAB) $\pm 0.2\%$ W. Peak (DIN) |

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

| | |
|----------------|-----------------------------------|
| Tuning range | 76.0 – 108.0 MHz |
| Tourist model: | 76.0 – 108.0 MHz |
| Other models: | 87.5 – 108.0 MHz (50 kHz step) |

| | |
|------------------------|--------------------|
| Aerial | FM lead aerial |
| Aerial terminals | 75 ohms unbalanced |
| Intermediate frequency | 10.7 MHz |

AM tuner section

| | |
|------------------------|--|
| Tuning range | 531 – 1,602 kHz (with the interval set at 9 kHz) |
| European model: | 531 – 1,602 kHz (with the interval set at 9 kHz) |
| Other models: | 530 – 1,710 kHz (with the interval set at 10 kHz) |
| Aerial | AM loop aerial |
| Intermediate frequency | External aerial terminals 450 kHz |

Speaker (SS-CJ3MDS/MDW/MDX)

| | |
|-------------------|----------------------------------|
| Speaker system | 2-way, bass-reflex type |
| Speaker units | |
| Woofer: | 12 cm dia., cone type |
| Tweeter: | 2.5 cm dia., balanced drive type |
| Nominal impedance | 6 ohms |

General

| | |
|--------------------|---|
| Power requirements | |
| European model: | 230 V AC, 50/60 Hz |
| Other models: | 220 V AC, 50/60 Hz |
| Power consumption | 70 watts during normal operation Approx. 3 watts in standby mode (clock displayed) Approx. 1 watt in standby mode (clock not displayed) |

Dimensions (w/h/d) incl. projecting parts and controls

Amplifier/Tuner/Tape/MD/CD section:

Approx. 175 × 250 × 320 mm

Speaker: Approx. 156 × 250 × 245 mm

Mass

Amplifier/Tuner/Tape/MD/CD section:

Approx. 6.1 kg

Speakers: Approx. 3.0 kg net per speaker

Supplied accessories Remote (1)

R6 (size AA) batteries (2)

AM loop aerial (1)

FM lead aerial (1)

Speaker cords (2)

Design and specifications are subject to change without notice.

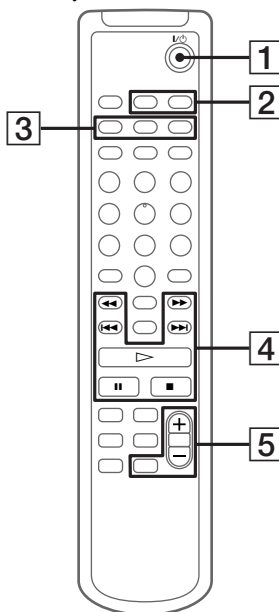
Parts descriptions for the remote

You can use the supplied remote to control the system.

Note

You cannot perform the following operations with the remote;

- TUNING MODE setting for the tuner
- STEREO/MONO setting for the tuner
- Removing discs
- Recording on the MD or the tape
- One Touch Play



1 I/O (power) switch

2 CLOCK/TIMER SELECT button

Press to check timer settings, or to set the timer on/off. (pages 62 and 64)

CLOCK/TIMER SET button

Press to set the clock and timer functions. (pages 6, 61, 63)

continued

Parts descriptions for the remote (continued)

3 PLAY MODE button

Press to select normal play, Shuffle Play or Programme Play. (pages 23, 28, 29, 33, 53)

REPEAT button

Press to play a track or all the tracks repeatedly (pages 22 and 28).

MUSIC MENU button

Press to select the type of the preset equalizer. (page 45)

4 CURSOR←/→, ◀▶/▶▶ buttons

Press to label a CD, MD and preset station, to set the clock, or to fast-forward or rewind a tape. (pages 6, 26, 43, 59)

◀◀/▶▶ (AMS: Automatic Music Sensor) buttons

▷ (play) button

⏸ (pause) button

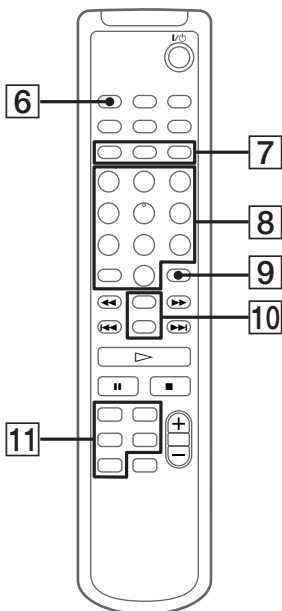
■ (stop) button

5 VOLUME +/- buttons

Press to adjust the volume.

DBFB button

Press to reinforce the bass sound. (page 58)



6 SLEEP button

Press to set Sleep Timer. (page 61)

7 MENU/NO button

Press to set Programme Play, or to label a CD, MD and preset station.

NAME EDIT/CHARACTER button

Press to display the text input screen and to select the type of characters to be input. (pages 26, 43, 59)

ENTER/YES button

Press to set the clock, Programme Play and to label a CD, MD and preset station, or to enter the settings in "Edit Menu" or "Setup Menu".

8 Number buttons

Press to select track numbers of a CD, MD, or preset station.

9 CLEAR button

Press to cancel the selection. (pages 24, 27, 29, 44, 60)

10 SCROLL button

Press to display the disc title or track title scrolling. (pages 27, 31, 45)

DISPLAY button

Press to show the various information. (pages 25 and 30)

11 The sound source buttons

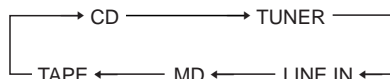
MD button

CD button

FUNCTION button

Press to switch the sound source.

Each time you press this button, the sound source changes as follows;



BAND, TUNER button

Press to select the tuner for the sound source, or to select the FM or AM band.

TAPE button

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